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TRANSPORTATION SCIENCES CENTER ACCIDENT RESEARCH GROUP

Division of Calspan SRL Corporation Buffalo, New York 14225

CALSPAN ON-SITE AIR BAG DEPLOYMENT INVESTIGATION
CALSPAN CASE NO. 94-14
VEHICLE: 1994 OLDSMOBILE NINETY EIGHT REGENCY ELITE
LOCATION:
CRASH DATE: 1994

Contract No. DTNH22-94-D-07058

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

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This crash investigation focused on the injuries that were sustained by the right front passenger of a 1994 Oldsmobile Ninety Eight. The vehicle was involved in a front-to-rear impact sequence with a stopped 1983 Ford Ranger pickup truck. The front bumper of the Oldsmobile underrode the rear step bumper of the Ranger resulting in 25.1 cm (9.1") of crush to the left corner of the radiator support panel. The Oldsmobile sustained a velocity change of 16 km/h (10 mph) which deployed the supplemental driver and passenger side air bags. Immediately prior to impact, the 65 year old right front passenger attempted to brace against the upper instrument panel with her right hand. Her finger extended over the leading edge of the passenger side air bag module cover flap. As the SRS deployed, the cover flap impacted the right third through fifth fingers resulting in multiple fractures and lacerations to the volar aspect of the digits. The cover flap subsequently contacted and fractured the windshield, however, the passenger hand did not contact the glazing.							
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CALSPAN SRL ON-SITE AIR BAG DEPLOYMENT INVESTIGATION CALSPAN CASE NO. 94-14

VEHICLE: 1994 OLDSMOBILE NINETY EIGHT REGENCY ELITE LOCATION:

SUMMARY

This on-site investigation focused on a front-to-rear chain reaction crash that involved a 1994 Oldsmobile Ninety Eight Regency Elite, 4 door sedan, that was equipped with a dual driver and passenger side air bag Supplemental Restraint System (SRS). The full frontal area of the Oldsmobile impacted and underrode the rear step-bumper of a 1983 Ford Ranger that was stopped in traffic for a signalized intersection. The 12 o'clock/6 o'clock impact configuration resulted in a sufficient longitudinal deceleration to deploy the Oldsmobile's SRS. The 65 year old female right front passenger attempted to brace against the right upper instrument panel with her right hand. Her fingers extended over the leading edge of the top mounted passenger side air bag module cover flap. As the SRS deployed, the module cover door impacted the volar aspect of her hand which resulted in multiple fractures of the right third through fifth digits. The belted driver of the Oldsmobile was not injured.

The crash occurred in 1994, during daylight hours on an urban two-lane road approximately 107 m (350') west of a four-leg intersection. The dry asphalt road surface was straight with a hillcrest at the crash site and a posted speed limit of 48 km/h (30 mph). Both edges of the 9.0 m (29'6") wide roadway were bordered by grass shoulders.

The 1994 Oldsmobile Ninety Eight was provided to the 64 year old male driver as a courtesy car for a local sporting event, therefore his familiarity with the vehicle was limited. In addition to the SRS, the Oldsmobile was equipped with four-wheel, power-disc brakes with anti-lock (ABS), power windows and power 60/40 split-bench front seats, passenger side air conditioning controls, leather seats with adjustable head restraints, glass sunroof, and a tilt steering wheel. The four outboard seated positions were equipped with manual 3-point lap and shoulder belts. The manual belts for the front outboard seated positions were equipped with adjustable D-rings. Both D-rings were found adjusted to the full up vertical positions. At the time of Calspan's inspection of the vehicle, the front set tracks were adjusted to the full rearward positions and the head restraints were in the down positions, on top of the seat backs. The vehicle was manufactured on 1/94 and was identified by the following vehicle identification number (VIN): 1G3CW At the time of the crash, the vehicle had an odometer reading of 646 km (401 miles).

The Oldsmobile Ninety Eight was traveling in an easterly direction on the two-lane roadway and descended a long grade that ended in a sag area then ascended a positive grade to a hillcrest. Eastbound traffic had reportedly backed-up from the intersection to the downslope of the hillcrest located approximately 107 m (350') west of the intersection. As the Oldsmobile crested the hill, the

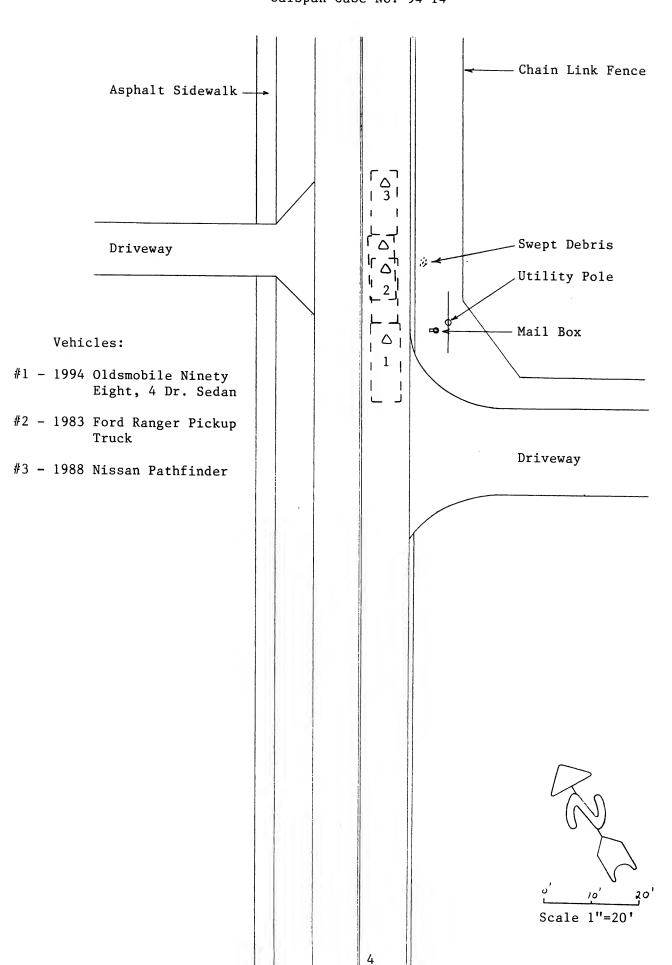
driver noted the stopped traffic and braked in an attempt to avoid the impending crash. The Oldsmobile was equipped with ABS, therefore no tire marks were visible on the road surface to determine the level of braking. There were several unrelated skidmarks that began at the hillcrest and terminated east of this crash site.

The front suspension of the Oldsmobile probably compressed due to the pre-crash braking as it impacted the rear of the stopped Ford Ranger. The top surface of the front bumper facia initially impacted then underrode the rear step bumper of the pickup truck. There was abrasive type damage to the top surface of the facia, however, there was no residual crush at bumper level or compression of the bumper energy absorbing devices (EADs). The grille, hood face, and upper radiator support of the Oldsmobile subsequently engaged against the bumper and tailgate of the Ford Ranger. The contact sequence fractured the plastic grille and headlamp assemblies and crushed the radiator support to a maximum depth of 25.1 cm (9.9") located 38.1 cm (15.0") left of center. The Collision Deformation Classifications (CDC) were 12-FDMW-1 and 06-BDEW-1 for the Oldsmobile and the Ford Ranger respectively. The damage algorithm of the CRASHPC program computed velocity changes of 16 km/h (10 mph) for the Oldsmobile and 21 km/h (13 mph) for the Ranger. As a result of the impact induced deployment, the Oldsmobile Ninety Eight's driver and passenger side air bags deployed.

The driver of the Oldsmobile was wearing the manual 3-point lap and shoulder belt system. Belt usage was confirmed by the GM readout of the on board Diagnostic Energy Reserve Module (DERM). There was no distinct evidence of belt loading, however, the latchplate yielded several wear marks which indicated routine usage during the 646 km that were recorded on the odometer. At impact, the driver probably initiated a forward trajectory in response to the 12 o'clock impact force and loaded the manual belt webbing and the deployed driver's side air bag. He did not sustain injury from his involvement with the restraint systems or from the low severity crash forces. There were no visible occupant contact points within the driver's compartment.

The right front occupant of the Oldsmobile 98 was a 65 year old adult female. She was reportedly wearing the manual 3-point lap and shoulder belt system. There was no evidence of loading on the belt webbing, however, the latchplate did yield routine wear marks which indicated previous usage. Immediately prior to the crash, the right front passenger attempted to brace against the vertical surface of the upper right instrument panel with her right hand. The palm of her hand probably braced against the vertical surface of the panel as her fingers extended forward over the leading edge of the top mounted module cover flap for the passenger side air bag. At impact, the SRS deployed and the leading edge of the cover flap impacted her right third through fifth fingers which resulted in comminuted fractures of the distal metacarpals with displacement to the right (AIS-2), comminuted intra-articular fractures of the mid phalanx of the right fifth digit and distal right fourth digit (AIS-1), and open lacerations to the volar aspect of the right fourth and fifth digits (AIS-1). The air bag door continued on an upward trajectory and impacted and fractured the windshield forward of the passenger's position. There was no evidence of passenger hand contact with the windshield or adjacent components. Her right knee possibly contacted, or was contacted by the mid portion of the glove box door which was found in the opened position at the time of our inspection

of the vehicle. The passenger was removed from the vehicle by rescue personnel and transported to a local hospital by ambulance where she was admitted for treatment of the finger fractures. Reports indicated that the passenger required surgery and the placement of numerous pins to repair the multiple fractures. She was discharged the following day and referred to an extensive physical therapy program.



CALSPAN ON-SITE AIR BAG DEPLOYMENT INVESTIGATION CALSPAN CASE NO. 94-14

VEHICLE: 1994 OLDSMOBILE NINETY EIGHT REGENCY ELITE LOCATION: MARYLAND

CRASH DATA

Location:

2-lane road

State:

Area/Type:

Urban/Commercial

Crash Date/Time:

June, 1994, daylight hours

Investigating Police

County Police

Agency:

Crash Type:

Three vehicle, front-to-rear im-

pact configuration

Air Bag Vehicle

Driver - Not injured

Occupant Injury Severity:

Right Front Passenger - (AIS-2)

AMBIENCE

Viewing Conditions:

Daylight

Weather:

Clear

Precipitation:

None

Road Surface:

Dry

Temperature:

24 degrees C (mid 70's degrees

F)

HIGHWAY

Type:

State route

Number of Lanes:

2

Width:

9.0 m (29'6")

Surface:

Asphalt

HIGHWAY (CONT'D.)

Median:

None

Edge:

Grass shoulders

Vertical Alignment:

Hillcrest

Horizontal Alignment:

Straight

Estimated Coefficient

.70

of Friction:

Traffic Density:

Moderate

TRAFFIC CONTROLS

Signals:

None

Signs:

No pertinent signs

Markings:

Solid double yellow centerline,

solid white road edge lines

Posted Speed Limit:

48 km/h (30 mph)

VEHICLES

Air Bag Vehicle

Vehicle #2

Description:

1994 Oldsmobile Ninety Eight

Regency Elite, 4-door sedan

1983 Ford Ranger pickup

truck, 4x2, with aluminum cap

V.I.N.:

1G3CW number deleted)

(production

1FTCR (production

number deleted)

Date of Manufacture:

4/94

2/83

Color:

Burgundy

Brown/cream

Odometer:

645.5 km (401.1 miles)

150,210 km (93,339 miles)

Engine:

V-6, 3800 cc

V-6, 2.8 liter

VEHICLES (CONT'D.)

Transmission: 4-speed automatic overdrive, col-

umn mounted transmission selec-

tor lever

Steering: Power-assisted

Brakes: Power-assisted four-wheel disc

with four-wheel anti-lock (ABS)

Padding: Upper and mid instrument panel,

knee bolster, glove box door, driver and passenger side air bag module cover flaps, sunvisors, soft-edged steering wheel rim, door panels, door armrests, folddown center armrest, adjustable

head restraints

Manual Restraints: 3-point lap and shoulder belt sys-

tems, inertia activated locking retractors with independent belt webbings affixed to a common latchplate, and adjustable D-rings at the front outboard 60/40 splitbench front seated positions, center front lap belt, 3-point lap and shoulder belts in the outboard rear seat positions, center rear lap belt

Automatic Restraints: Driver and passenger side air bag

Supplemental Restraint System (SRS) which deployed as a result

of the crash

Tow Status: Towed due to vehicle damage

Towed due to vehicle damage

Vehicle #3

Description: 1988 Nissan Pathfinder, sport

utility vehicle

V.I.N.: JN8HD

VEHICLE DAMAGE

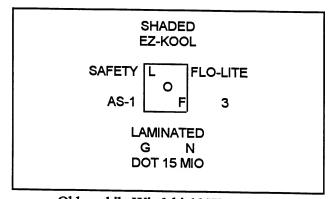
Exterior:

Air Bag Vehicle

The 1994 Oldsmobile Ninety Eight sustained moderate frontal damage as a result of its front-to-rear impact sequence with the stopped Ford Ranger (vehicle #2). In an attempt to avoid the crash, the driver of the Oldsmobile applied a braking force which compressed the front suspension as the vehicle impacted the rear of the stopped Ford Ranger. The top surface of the front bumper fascia initially impacted then underrode the rear step bumper of the pickup truck. Damage to the fascia consisted of longitudinally oriented abrasions to top surface and a tear located 7.6 cm (3.0") left of the center that resulted from the trailer hitch stud protruding from the center of the rear bumper of The center-mounted license plate frame was the Ford Ranger. cracked as a result of the contact sequence. There was compression of the bumper energy absorbing devices (EADs) and no residual crush at bumper level. Both front bumper EADs remained in their original pre-crash position at 8.6 cm (3.375") in length (refer to Photograph Nos. 15 and 16). As the front bumper of the Oldsmobile underrode the rear bumper of the Ford Ranger, the grille and hood face area engaged against the bumper face and tailgate of the Ford Ranger. The direct contact damage was 140.0 cm (55.1") in length which extended across the entire width of the vehicle at grille level. The contact fractured the plastic grille and headlamp assemblies and deformed the air conditioning condenser, the center mounted air bag discriminating sensor, and the upper radiator support panel. Maximum crush was 25.1 cm (9.875") located at the radiator support panel 38.1 cm (15.0") left of center (refer to Photograph Nos. 13 and 14). The residual crush profile was documented at the upper radiator support level and was as follows: $C_1 = 9.1 \text{ cm} (3.6)^{\circ}$, $C_2 = 24.4 \text{ cm} (9.6)^{\circ}$, $C_3 = 19.7 \text{ cm}$ (7.75"), $C_4=16.8 \text{ cm} (6.6")$, $C_5=14.2 \text{ cm} (5.6")$, $C_6=2.3 \text{ cm} (0.9")$. The leading edge of the hood sustained contact damage from engagement with the tailgate of the struck Ford Ranger. The contact damage began 12.1 cm (4.75") inboard of the right corner and extended 134.6 cm (53.0") to the left corner (refer to Photograph No. 7). The tempered glass sunroof separated from the vehicle and was found lying undamaged in the rear seat area of the vehicle. The roof sustained symmetrical areas of deformation directly rearward of the Bpillars on both sides of the vehicle (refer to Photograph Nos. 21 and 26).

VEHICLE DAMAGE (CONT'D.)

Interior (Air Bag Vehicle): There was no interior intrusion or damage associated with exterior deformation. Interior damage resulted from deployment of the Supplemental Restraint System and occupant contact points on the passenger side of the vehicle. During the deployment of the SRS, the passenger side air bag module cover flap impacted and fractured the laminated windshield. The leading edge of the module cover flap contacted the windshield 47.6 cm (18.75") below the header and bowed the laminated glazing approximately 2.5 cm (1.0") outward. The horizontally oriented impact point was located 17.8-55.9 cm (7.0-22.0"). The windshield identification watermark was as follows:



Oldsmobile Windshield Watermark

As a result of windshield contact, the module cover flap was abraded over the leading edge and front third area of the flap. In addition to the abrasions, the right third area of the flap was deformed in a downward direction 1.3 cm (0.5"), probably due to the contact with the curvature of the windshield. The expanding passenger side air bag probably contacted the interior rear view mirror and displaced the right side of the mirror in an upward direction. The trim panel at the trailing edge of the instrument panel adjacent to the windshield was displaced forward and upward from deployment of the passenger air bag module cover flap (refer to Photograph No. 41). The upper surface of the passenger side air bag exhibited burgundy vinyl transfer marks which resulted from expansion of the bag against the internal surface of the module cover flap. Within the vehicle were numerous white powder transfers that were associated with the deployment. A small white powder transfer was located on the vinyl trim panel at the apex of the B-pillar and the roof side rail. The same substance was also noted on the leading edge of the stowed right sunvisor at 43.8-47.0 cm (17.25-18.5") right of the vehicle's centerline. The visor also had a depression located 41.9-46.4 cm (16.5- 18.25") right of center

VEHICLE DAMAGE (CONT'D.)

which probably resulted from contact by the volar aspect of the passenger's right hand. A vertically oriented 3.8 cm (1.5") white powder-type scuff was located on the apex of the right mid A-pillar. Another white powder-type mark was located on the leading edge of the passenger roof assist grip (refer to Photograph No. 51). A white powder transfer mark was noted on the headliner adjacent to the Bpillar 10.8-13.3 cm (4.25-5.25") inboard of the side rail (refer to Photograph No. 52). The lower surface of the passenger side air bag exhibited several 1.9 cm (0.75") body fluid (blood) stains which probably occurred post-event as the passenger remained in the vehicle and the bag deflated. The glove box door was found fully open and would not latch, although it was not deformed. A possible knee scuff was located on the glove box door 19.7-22.5 cm (7.75-8.875") right of the left edge and 12.7-14.6 cm (5.0-5.75") below from the mid panel/upper panel juncture (refer to Photograph No. 46). The vinyl fabric at the top edge of the glove box door was gouged 24.1-24.4 cm (9.5-9.625") right of the left edge (refer to Photograph No. 47). Body fluid was present around gouge.

Exterior:

Vehicle #2

The 1983 Ford Ranger sustained full-width direct contact damage of 153.0 cm (60.25") to the lower portion of the rear bumper. The rear bumper was an original equipment manufacture (OEM) type step bumper with a ball hitch bolted to the mid point. Maximum crush was 7.3 cm (2.9") located on the lower right corner area. The crush profile was as follows: $C_1=5.1 \text{ cm } (2.0^{\circ})$, $C_2=2.8 \text{ cm } (1.1^{\circ})$, $C_3=1.5$ cm (0.6"), $C_4=1.9$ cm (0.75"), $C_5=5.1$ cm (2.0"), $C_6=7.3$ cm (2.9"). The vehicle damage profile is documented in Photograph Nos. 55-58. The hood of the Oldsmobile engaged against the lower tailgate of the Ford Ranger, however, there was no contact damage to the tailgate. Paint transfers were noted to the hood face of the Oldsmobile from tailgate contact. Minor right frontal damage resulted to the Ford Ranger from its subsequent impact sequence with the stopped Nissan Pathfinder (vehicle #3). The damage consisted of bumper deformation at the right corner, right headlight and grille damage, and right front fender crush.

Vehicle #3

Exterior:

Unavailable

AUTOMATIC RESTRAINT SYSTEM

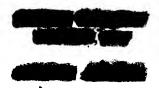
The 1994 Oldsmobile was equipped with a Supplemental Restraint System (SRS) that consisted of dual driver and passenger side air bags which deployed as a result of the crash with the Ford Ranger. In addition to the air bags, the SRS utilized three front mounted discriminating (crash) sensors, a passenger compartment mounted diagnostic energy reserve module (DERM), and an arming (safing) sensor. The driver side air bag was incorporated into the steering wheel hub assembly in a typical configuration while the passenger side air bag was mounted into the upper right instrument panel in a top-mount configuration.

The two outboard discriminating sensors were mounted to the frame rails directly rearward of the bumper EADs (refer to Photograph Nos. 17 and 19). The third discriminating sensor was mounted to the forward side of the radiator support panel, adjacent to the left side of the hood latch assembly. The forward aspect of the center mounted sensor was slightly deformed as a result of the frontal impact (refer to Photograph No. 18), however, the deformation did not appear to have damaged the internal components of the sensor.

The driver's side air bag deployed as designed from an I-configuration air bag module cover assembly that was contained within the offset four-spoke steering wheel. The four spokes were located at the 9 and 3 o'clock and 4 and 8 o'clock positions. The left side of the steering wheel hub, adjacent to the hinge point of the module cover flaps, contained fan and temperature control switches between the spokes while the right side of the wheel contained the volume and the seek/program switches for the stereo system (refer to Photograph No. 34). The I-configuration module cover flaps were hinged at the sides with a vertical center tear seam and horizontal perimeter seams. The symmetrical cover flaps had a upper width (horizontal measurement) of 8.2 cm (3.25") and a lower width of 6.9 cm (2.75"). The vertical tear seam was 12.2 cm (4.875") in length. The horn was activated by depressing any area of the module cover flaps. This was accomplished by contact pads located between the module cover flaps and the internal nylon flaps which protected the folded air bag (refer to Photograph No. 35). The interior surface of the flaps were molded in a honeycomb-type configuration. The deployed driver's side air bag was 64.8 cm (25.5") in diameter and was and was constructed of a typical woven nylon-type fabric. The bag was not tethered and was vented with two 2.5 cm (1.0") diameter ports located on the back side of the bag at the 3 and 9 o'clock positions. There was no damage or evidence of occupant contact to the deployed driver' side air bag. During our inspection of the vehicle, the tilt steering wheel was adjusted two positions above the mid (center) point.

The passenger side air bag module assembly was mounted into the upper right instrument panel in a top mount configuration. The module cover flap opened at the designated tear points at the leading edge (edge toward occupant) and side surfaces. The cover flap was rigidly hinged at the horizontal edge adjacent to the windshield which allowed the cover flap to open in an upward and forward direction (with respect to the vehicle). The vinyl cover flap measured 38.7 cm (15.25") in width, 19.1 cm (7.5") in depth, and was approximately 1.3 cm (0.5") in thickness. A bar coded tag on the inside of the passenger side cover flap identified the manufacturer as follows:

AUTOMATIC RESTRAINT SYSTEM (CONT'D.)



The rigid cover flap impacted and fractured the laminated windshield during deployment. The cover flap sustained 1.3 cm (0.5") of downward deflection at the right third sector that was due to contact with the contoured windshield. A thin sheet of Tyvek-like material was manufactured into the module assembly and was positioned between the interior surface of the module and cover flap which acted as a protective liner for the folded air bag (refer to Photograph No. 42). A bar coded label was affixed to the right side of the passenger side air bag module assembly which identified the unit with the following alpha-numeric sequence:

The passenger side air bag was constructed of a typical woven nylon-type fabric. The bag was not lined and was tethered by two internal tether panels that were affixed to the face of the bag with two rows of orange stitching on 29.8 cm (11.75") centers. The internal tether panels limited the rearward excursion of the bag. The width of the passenger side bag was 67.9 cm (26.75") from seam-to-seam. The bag was vented by two 5.1 cm (2.0") diameter ports located on the side panels at the 3 and 9 o'clock positions. Burgundy vinyl transfers were present on the top side of the air bag probably due to contact with the module cover flap. Body fluid (blood) stains that were 1.9 cm (.75") in diameter were present on the bottom surface of the air bag. There was no evidence of occupant contact to the deployed passenger side air bag or module cover flap.

The SRS diagnostic energy reserve module (DERM) monitors and records sensor data, faults within the system, ignition cycles, and the manual seat belt warning lamp which is activated by the driver's side belt system. During our inspection of the vehicle, representatives from General Motors were available to perform a read-out of the DERM. The results of the DERM were as follows:

- The discriminating sensor closed 3.4 milliseconds prior to the lower threshold arming sensor. Both sensors remained closed in an overlap mode for 7.78 milliseconds which resulted in a total closure of 11.2 milliseconds for the discriminating sensor. (In a typical barrier crash, the arming sensor usually closes prior to the discriminating sensor.)
- The DERM readout hexadecimal code indicated that the driver's manual belt system was buckled during the SRS deployment phase. This was recorded through an off-mode of the instrument panel mounted seat belt indicator lamp. If the belt was not worn, the lamp would have been in the on-position.
- The DERM recorded 120 ignition cycles with no faults stored in the system, therefore the SRS deployment was a normal crash induced deployment.

AUTOMATIC RESTRAINT SYSTEM (CONT'D.)

In addition to the DERM readout, the General Motors representative indicated that the passenger side air bag module cover flap typically does not impact the windshield as it did in this crash related deployment. He noted that when ambient temperatures exceed 21 degrees C (70 degrees F), the gas generators have a tendency to produce more gas, therefore resulting in a more aggressive deployment. This aggressive deployment probably resulted in cover flap contact with the windshield. At the time of the crash, the ambient temperature was approximately 24 degrees C (mid 70's degrees F). The Oldsmobile was apparently parked for an unknown period of time prior to the crash which probably resulted in an interior temperature which exceeded the ambient temperature.

MANUAL RESTRAINTS

The Oldsmobile was equipped with manual 3-point lap and shoulder belts in the front outboard seated positions. The belt systems consisted of separate lap and shoulder belt webbings that were attached to a common latchplate. Inertia activated locking retractors were mounted in the B-pillars for the shoulder belt webbings and in the sills of the vehicle for the lap belts. The B-pillar mounted upper anchorages (D-rings) were adjustable for the shoulder belt webbings. Both left front and right front D-rings were in the full-up at the time of vehicle inspection. The left front belt latchplate yielded several faint routine wear marks. No visible wear marks were observed on the right front latchplate. There was no evidence of loading on the manual belt systems for the driver and right front passenger seated positions.

The rear seat of the Oldsmobile was equipped with 3-point lap and shoulder belts in the outboard seated positions and a center lap belt. There were no rear seated occupants in the Oldsmobile at the time of the crash.

COLLISION SEQUENCE

Pre-Crash:

The 1994 Oldsmobile Ninety Eight was a courtesy car for a local sporting event and not the personal car of the driver, therefore his familiarity with the vehicle was limited. Prior to the crash, the vehicle had been parked for some time that day before being driven. Ambient temperatures were in the 24 degree C (mid 70's degree F) range with interior temperatures of a closed vehicle probably exceeding these values.

Immediately prior to the crash, the Oldsmobile was traveling in an easterly direction on a dry asphalt road surface at an estimated speed of 48 km/h (30 mph). On its pre-crash approach, the vehicle descended a long grade that ended in a sag area then ascended a positive grade to a hillcrest. Eastbound traffic had reportedly backed-up from a four-leg intersection to the down slope of the hillcrest that was located approximately 107 m (350') west of the intersection. Traffic flow through the intersection was controlled by a traffic signal. As the

COLLISION SEQUENCE (CONT'D.)

Pre-Crash (Cont'd.):

Oldsmobile crested the hill, a 1983 Ford Ranger which was traveling ahead of the air bag equipped vehicle, braked rapidly to avoid the stopped traffic. A Nissan Pathfinder was stopped in traffic ahead of the Ford Ranger. The driver of the Oldsmobile attempted to avoid the impending impact with the Ford Ranger by braking. The Oldsmobile was equipped with ABS, therefore no tire marks were visible on the road surface to determine the level of braking.

Crash:

The full frontal area of the Oldsmobile Ninety Eight impacted the rear of the Ford Ranger resulting in a 12 o'clock/6 o'clock impact configuration. The front suspension of the Oldsmobile compressed due to the pre-crash braking as it impacted the rear of the stopped Ford Ranger pickup truck. As a result, the top surface of the front bumper fascia of the Oldsmobile initially impacted then underrode the rear step bumper of the pickup truck. The Oldsmobile sustained abrasive type damage to the top surface of the fascia with no compression of the bumper EADs or residual crush at bumper level. The grille and hood face of the Oldsmobile subsequently engaged against the face of the truck's step bumper and tailgate which crushed the grille, headlamps, and the upper radiator support panel. Maximum residual crush at the radiator support bracket was 25.1 cm (9.875") located 38.1 cm (15.0") left of center. The Ford Ranger sustained minor damage across the full width of the rear bumper with a maximum deformation depth of 7.3 cm (2.875") on the lower right side. As a result of the underride front-to-rear impact configuration, the Oldsmobile sustained a longitudinal velocity change of (16 km/h) 10 mph) while the Ford pickup truck sustained an equivalent velocity change of 21 km/h (13 mph). The velocity changes were computed by the damage algorithm of the CRASHPC program. As a result of the impact induced deceleration, the Oldsmobile's SRS deployed.

The impact displaced the Ford Ranger pickup truck in a forward direction where it impact the stopped 1988 Nissan Pathfinder (vehicle #3). The subsequent impact sequence resulted in impact forces of 12 o'clock and 6 o'clock for the Ford and Nissan respectively. Frontal damage to the Ford Ranger consisted of deformation to the right side bumper, headlamp, grille, and right front fender. The rear of the Nissan Pathfinder sustained minor damage.

Post-Crash:

The Oldsmobile Ninety Eight came to rest on the asphalt road surface at or near the point of impact. The Ford Ranger and Nissan Pathfinder came to rest near their subsequent impact location. The Oldsmobile sustained disabling damage which required towing from the scene. The Ford Ranger sustained minor damage to both end planes and was towed from the scene. The Nissan Pathfinder sustained minor rear damage and was driven from the scene.

The driver of the Oldsmobile was not injured and exited the vehicle unassisted. His right front passenger sustained multiple fractures of the right hand and remained in the vehicle for rescue

COLLISION SEQUENCE (CONT'D.)

Post-Crash (Cont'd.):

personnel to arrive on-scene. She was subsequently transported by ambulance to a local hospital where she was admitted for treatment of her fractures.

HUMAN DEMOGRAPHICS/OCCUPANT DATA

Air Bag Vehicle

Driver:

64 year old male

Height:

Unknown

Weight:

Unknown

Manual Restraint

Usage:

3-point lap and shoulder belt system

Usage Source:

Police accident report, confirmed by GM readout of on board

Diagnostic Energy Reserve Module (DERM)

Eyeware:

Unknown

Vehicle Familiarity:

Unknown

Route Familiarity:

Unknown

Trip Plan:

Unknown

Mode of Transport

From Scene:

Rode in ambulance with right front passenger (wife)

Type of Medical

Treatment:

None

DRIVER INJURIES

Not injured

DRIVER KINEMATICS

The driver of the 1994 Oldsmobile was presumably in a normal posture at impact. His power seat was adjusted to the full rearward track position with the seat back slightly reclined. The adjustable head restraint was positioned at its lowest point, on top of the seat back support. He was properly restrained by the manual 3-point lap and shoulder belt system. There was no direct evidence of driver loading on the belt system, however, the latchplate contained several faint routine wear marks. The diagnostic readout of the DERM by GM confirmed belt usage.

At impact with the Ford Ranger pickup truck, the supplemental driver and passenger side air bag system deployed. The driver initiated a forward trajectory in response to the 12 o'clock impact force and loaded the manual belt webbing and the deployed air bag which prevented him from contact with interior components. As a result of restraint loading, the driver was not injured. There was no evidence of occupant contact on the deployed driver's side air bag.

RIGHT FRONT PASSENGER

Age/Sex:

65 year old female

Height:

175.3 cm (69.0")

Weight:

Unknown

Manual Restraint

Usage:

Reportedly wearing manual 3-point lap and shoulder belt system

Usage Source:

Police accident report

Automatic Restraints: Deployment of the passenger side top-mounted air bag

Mode of Transport

From Scene:

Ambulance

Type of Medical

Treatment:

Transported to a local hospital, admitted for treatment of finger fractures which required surgery. She was discharged the following

day and referred to an extensive physical therapy program.

RIGHT FRONT PASSENGER INJURIES

Injury	Injury Severity (AIS-2)	Injury Mechanism
Comminuted fractures of the distal right third, fourth and fifth metacarpals with displacement to the right	Moderate (752002.22)	Deploying passenger side air bag module cover flap
Comminuted intra-articular fractures of the middle phalanx of the right fifth digit	Minor (752404.11)	Deploying passenger side air bag module cover flap
Comminuted intra-articular fracture of the distal phalanx of the right fourth (ring) digit	Minor (752404.11)	Deploying passenger side air bag module cover flap
Open wounds (lacerations) of the volar aspect (palm side) of the right fourth and fifth digits	Minor (790602.11)	Deploying passenger side air bag module cover flap

RIGHT FRONT PASSENGER KINEMATICS

The right front passenger of the 1994 Oldsmobile Ninety Eight was in a normal seated position at impact. Her seat track was found in the full rearward position, however, it was unknown if this was the position of the seat at the time of the crash. Based on the location

RIGHT FRONT PASSENGER KINEMATICS (CONT'D.)

and severity of her injuries, the right front passenger attempted to brace against the right upper instrument panel with her right hand. The palm of her hand probably rested against the vertical surface of the panel as her fingers extended forward over the top mounted cover flap for the passenger side air bag. She was properly restrained by the manual 3-point lap and shoulder belt system. There was no direct evidence of passenger loading on the belt webbing, however, the latchplate did yield routine wear marks which indicated usage. The adjustable head restraint was positioned in the down mode on top of the seat back.

At impact with the Ford Ranger pickup truck, the supplemental driver and passenger side air bag system deployed. The leading edge of the passenger side air bag module cover flap impacted her right third through fifth fingers which resulted in comminuted fractures of the distal right third, fourth, and fifth metacarpals with displacement to the right, comminuted intra-articular fractures of the middle phalanx of the right fifth digit and distal phalanx of the fourth digit, and open lacerations of the volar aspect of the right fourth and fifth digits. There was no evidence of passenger hand to the instrument panel or module cover flap. The cover flap contact in combination with the deploying air bag, displaced her hand in an upward and rearward direction. It should be noted that there was no hand contact with the windshield which was fractured by the cover flap. Numerous whitish -type transfers were noted to the headliner and side rail trim within the vehicle. Although none of these transfers appeared to be tissue, the transfers were probably residue that resulted from deployment of the SRS.

As a result of the deployment of the passenger side air bag, the glove box door opened and probably impacted the passenger's knee and or leg. A scuff with a small diameter gouge was noted to the top edge of the door with a body fluid stain (blood) adjacent to the gouge. There were no injuries reported to the lower extremities of the passenger, therefore the blood stain on the glove box door probably occurred from the hand post-crash. She came to rest in an upright posture in the passenger seat.

The passenger was removed from the vehicle by rescue personnel and transported to a local hospital by ambulance where she was admitted for treatment of the fractures. She was discharged the following day and referred to an extensive physical therapy program.

ATTACHMENT A

Selected Color Prints Calspan Case No. 94-14



1. Lookback view of the Oldsmobile's initial approach to the crash scene.



2. Eastbound trajectory of the Oldsmobile 98.



3. Hillcrest in the area of impact.



4. Approximate area of impact (unrelated skidmarks at scene).



5. Probable debris at scene.



6. Frontal damage to the Oldsmobile 98.



7. Direct contact damage across top surface of bumper fascia and hood.



8. Damage across grille and upper radiator support.



9. Close-up view of the face of the left front bumper fascia.



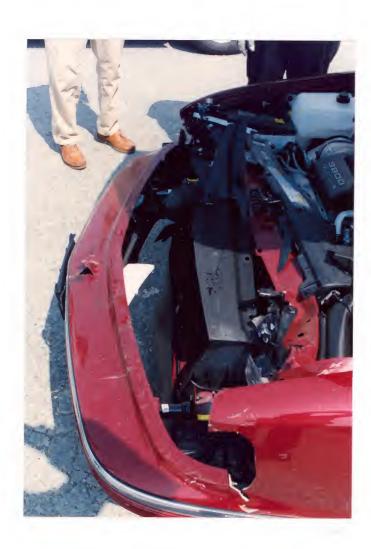
10. Close-up view of the face of the right front bumper fascia.



11. Left front three-quarter view of the Oldsmobile 98.



12. Perpendicular view of the hood displacement.



13. Perpendicular view of the crush to the upper radiator support.



14. Perpendicular view of the engine compartment.



15. Left front bumper energy absorbing device (EAD).



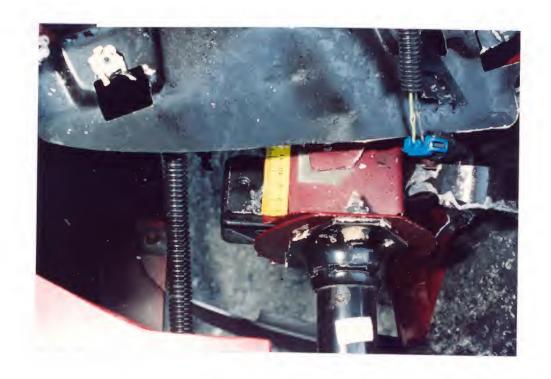
16. Right front bumper EAD (no compression).



17. Left front discriminating (crash) sensor.



18. Contact damage to the leading edge of the center front discriminating sensor.



19. Right front discriminating sensor.



20. Left side view of the Oldsmobile.



21. Induced deformation to roof at the left B-pillar.



22. Left rear view of the Oldsmobile.



23. Right rear three-quarter view.



24. Right side view.



25. Tempered glass sun roof separated from the vehicle.



26. Induced deformation to the roof at the right B-pillar area.



25. Tempered glass sun roof separated from the vehicle.



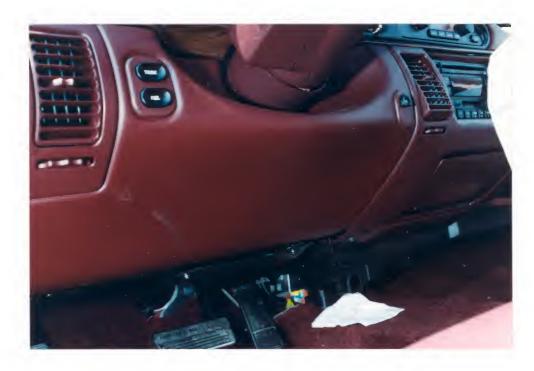
26. Induced deformation to the roof at the right B-pillar area.



29. Vehicle identification label on the left front door.



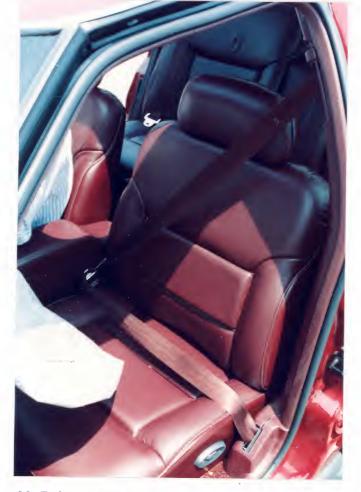
30. Overall view of the driver's compartment and steering assembly.



31. Knee bolster with probable foot scuff on left side.



32. Driver's side air bag.



33. Driver's seat and the manual 3-point belt system.



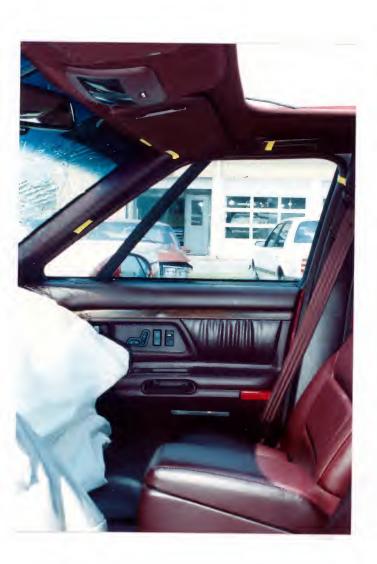
34. Vertical configuration of the driver's side air bag module cover flaps.



35. Horn contact pad located between module cover flap and air bag.



36. Close-up view of the driver's side air bag.



37. Perpendicular view across the interior to the right door area.



38. Overall view of the right front passenger compartment and deployed air bag.



39. Deployed passenger side air bag.



40. Passenger side air bag module cover flap.



41. Leading edge of the module cover flap.



42. Module flap and resultant windshield contact damage.



43. Exterior view of the windshield damage.



44. Perpendicular view showing the outward displacement of the windshield.



45. Outboard vent port of the passenger side air bag.



46. Possible knee scuff to the glove box door.



47. Gouge to the top edge of the glove box door.



48. Passenger's seat and the manual 3-point belt system.



49. White powder transfer on the leading edge of the right sun visor.



50. White powder transfer at the apex of the right B-pillar/side rail juncture.



51. Scuff on the leading edge of the roof mounted right passenger assist grip.



52. White powder transfer on the headliner inboard of the right B-pillar.



53. Scuff at the mid point of the right B-pillar.



54. Left frontal view of the struck Ford Ranger.



55. Left rear three-quarter view of the Ford Ranger.



56. Perpendicular view of bumper crush at the left rear corner.



57. Rear view of the distributed direct contact damage.



58. Perpendicular view of the right rear corner showing the extent of crush.



59. Right rear three-quarter view.



60. Subsequent frontal damage that resulted from contact with vehicle #3.

ATTACHMENT B

CRASHPC Output (Damage Algorithm)

SUMMARY OF CRASHFC RESULTS USING DAMAGE

CRASHS RECONSTRUCTION

SPEED CHANGE (DAMAGE)

	(DAMHJE)	
VEHICLE #1		
TOTAL	16 KPH (10 MPH)	
LONGITUDINAL	-16 KPH (-10 MPH)	
LATITUDINAL	O KPH (O MPH)	
PDOF ANGLE	O DEGREES	
ENERGY DISSIPATED =	19916 JOULES (14687 FT-LE	3)
VEHICLE #2		
TOTAL	21 KPH (13 MPH)	
LONGITUDINAL	21 KPH (13 MPH)	
LATITUDINAL	O KPH (O MPH)	
PDOF ANGLE	-180 DEGREES	
ENERGY DISSIPATED ==	19600 JOHES (14454 FT-15	<i>.</i> 1

DAMAGE DATA

VEHICLE #1 VEHICLE #2 SIZE CATEGORY 4 3 STIFFNESS CATEGORY VEHICLE WEIGHT 1745 KGS (3847 LBS) 1290 KGS (2843 LBS) CDC 12FDMW1 O DEGREES O6BDLW1 PDOF ANGLE 180 DEGREES CRUSH LENGTH 140 CM. (55 IN.) 153 CM. (60 IN.) C15 CM. (2 IN.) 5 CM. (2 IN.) 02 12 CM. (5 IN.) 3 CM. (1 IN.) CЭ 10 CM. (4 IN.) 2 CM. (1 IN.) $\Box 4$ 8 CM. (3 IN.) 2 CM. (1 IN.) C5 7 CM. (3 IN.) 5 CM. (2 IN.) 06 1 CM. (1 IN.) 7 CM. (3 IN.) D O CM. (O IN.) O CM. (O IN.) [] F

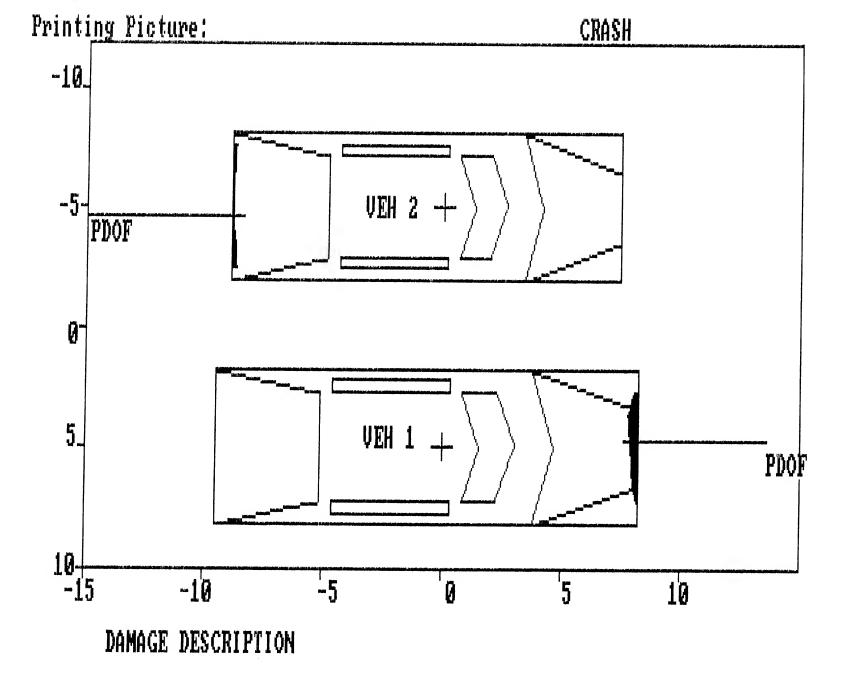
-8 CM. (-3 IN.)

(* INDICATES DEFAULT VALUE)

11 CM. (4 IN.)

DIMENSIONS AND INERTIAL PROPERTIES

	VEHICLE #1	VEHICLE #2
CG TO FRONT AXLE	139 CM. (55 IN.)	130 CM. (51 IN.)
OG TO REAR AXLE TRACK	150 CM. (59 IN.) 157 CM. (62 IN.)	141 CM. (56 IN.)
CG TO FRONT OF VEH	251 CM. (99 IN.)	150 CM. (59 IN.) 228 CM. (90 IN.)
CG TO REAR OF VEH	-290 CM. (-114 IN.) 98 CM. (39 IN.)	-270 CM. (-106 IN.) 92 CM. (36 IN.)
MOMENT OF INERTIA VEHICLE MASS	16974 KGS (37420 LBS)	11146 KGS (24571 LBS) 3 KGS (7 LBS)



ATTACHMENT B

CRASHPC Output (Damage Algorithm)

SUMMARY OF CRASHPC RESULTS USING DAMAGE

CRASH3 RECONSTRUCTION

SPEED CHANGE (DAMAGE)

VEHICLE #1

TOTAL 16 KPH (10 MPH)

LONGITUDINAL -16 KPH (-10 MPH)

LATITUDINAL 0 KPH (0 MPH)

PDOF ANGLE 0 DEGREES

ENERGY DISSIPATED = 19916 JOULES (14687 FT-LB)

VEHICLE #2

TOTAL 21 KPH (13 MPH)
LONGITUDINAL 21 KPH (13 MPH)
LATITUDINAL 0 KPH (0 MPH)
PDOF ANGLE -180 DEGREES

ENERGY DISSIPATED = 19600 JOULES (14454 FT-LB)

DAMAGE DATA

VEHICLE #1

VEHICLE #2

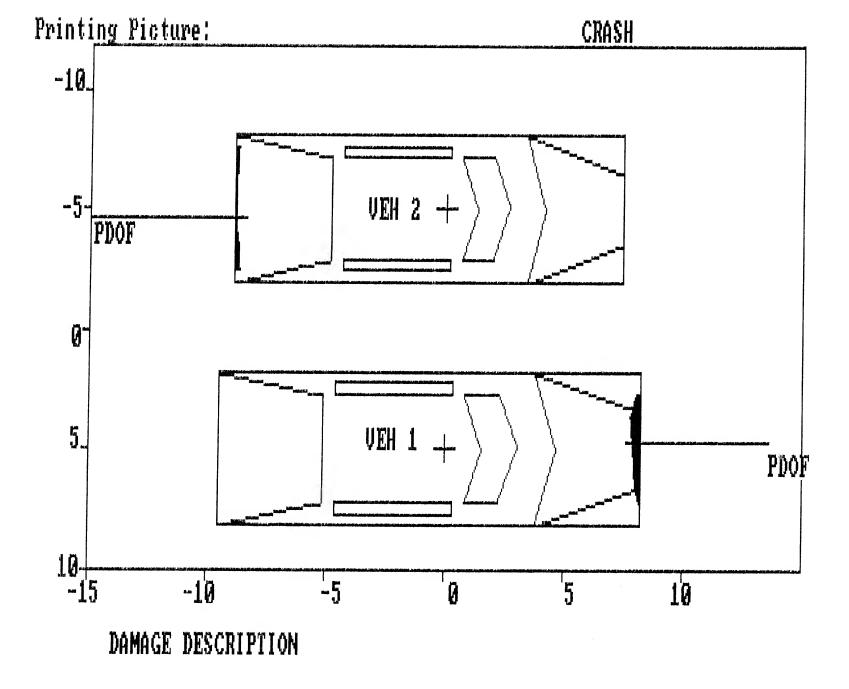
SIZE CATEGORY	4	3
STIFFNESS CATEGORY	4	8
VEHICLE WEIGHT	1745 KGS (3847 LBS)	1290 KGS (2843 LBS)
CDC	12FDMW1	06BDLW1
PDOF ANGLE	O DEGREES	180 DEGREES
CRUSH LENGTH C1 C2 C3 C4 C5 C6 D	140 CM. (55 IN.) 5 CM. (2 IN.) 12 CM. (5 IN.) 10 CM. (4 IN.) 8 CM. (3 IN.) 7 CM. (3 IN.) 1 CM. (1 IN.) 0 CM. (0 IN.) -8 CM. (-3 IN.)	153 CM. (60 IN.) 5 CM. (2 IN.) 3 CM. (1 IN.) 2 CM. (1 IN.) 2 CM. (1 IN.) 5 CM. (2 IN.) 7 CM. (3 IN.) 0 CM. (0 IN.) 11 CM. (4 IN.)

(* INDICATES DEFAULT VALUE)

DIMENSIONS AND INERTIAL PROPERTIES

|--|--|--|--|--|

	VEHICLE #1	VEHICLE #2
CG TO FRONT AXLE	139 CM. (55 IN.)	130 CM. (51 IN.)
CG TO REAR AXLE	150 CM. (59 IN.)	141 CM. (56 IN.)
TRACK	157 CM. (62 IN.)	150 CM. (59 IN.)
CG TO FRONT OF VEH	251 CM. (99 IN.)	228 CM. (90 IN.)
CG TO REAR OF VEH	-290 CM. (-114 IN.)	-270 CM. (-106 IN.)
CG TO SIDE OF VEH	98 CM. (39 IN.)	92 CM. (36 IN.)
MOMENT OF INERTIA	16974 KGS (37420 LBS)	11146 KGS (24571 LBS)
VEHICLE MASS	5 KGS (10 LBS)	3 KGS (7 LBS)



U.S. Department of Transportation

National Highway Traffic Safety Administration

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 2. Case Number — Stratum 3. Vehicle Number — O L VEHICLE IDENTIFICATION	11. Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown Note: See variables 37 through 55		
4. Vehicle Model Year Code the last two digits of the model year (99) Unknown 5. Vehicle Make (specify): OLDSMOBILE Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown	(Page 4) for information on Other Drugs 12. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source:		
6. Vehicle Model (specify):	ACCIDENT RELATED 13. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kph (999) Unknown		
 7. Body Type Note: Applicable codes may be found on the back of this page. 8. Vehicle Identification Number 1 G 3 C w 5 2 L 9 R 4 	3 0 mph X 1.6093 = 0 4 8 kph 14. Attempted Avoidance Maneuver (01) No avoidance actions (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left		
Left justify; Slash zeros and letter Z (Ø and Z) No VIN—Code all zeros Unknown—Code all nines OFFICIAL RECORDS 9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage	(07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering left (12) Accelerating and steering right (97) No driver present (98) Other action (specify):		
(1) Towed due to vehicle damage (9) Unknown 10. Police Reported Travel Speed Code to the nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown mph X 1.6093 = kph	15. Accident Type Applicable codes may be found on the back of page two of this field form (00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): (99) Unknown		
**** SKIP TO VARIABLE GV37 IF GV07 DOES NOT EQUAL 01-49 ****			

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (O3) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (O5) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500,)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

OCCUPANT RELATED	24. Rollover
16. Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown 17. Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown	(0) No rollover (no overturning) Rollover (primarily about the longitudinal axis) (1) Rollover, 1 quarter turn only (2) Rollover, 2 quarter turns (3) Rollover, 3 quarter turns (4) Rollover, 4 or more quarter turns (specify): ———————————————————————————————————
18. Number of Occupant Forms Submitted 02	about the lateral axis) (9) Rollover (overturn), details unknown
VEHICLE WEIGHT ITEMS	OVERRIDE/UNDERRIDE (THIS VEHICLE)
19. Vehicle Curb Weight 1,5 8 c	
Code weight to nearest 10 kilograms. (045) Less than 450 kilograms (610) 6,100 kilograms or more (999) Unknown	26. Rear Override/Underride (this Vehicle) (0) No override/underride, or not an end-to-end impact Override (see specific CDC) (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):
(1) Yes—towed trailing unit (9) Unknown	HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V
22. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown
23. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):	27. Heading Angle For This Vehicle 28. Heading Angle For Other Vehicle DDD D
(9) Unknown	

Cate- gory	Configur-	ACCIDENT TYPES (Includes Intent)	
	A Right Roadside Departure		FECIFICS NKNOWN
Single Driver	B Left Roadside Departure		PEGIFICS HKNOWN
-	C Forward Impact	The state of the s	PECIFICS NKNOWN
Deri ÁBALI	D Rear-End	STOPPED SLOWER DECEL. 31 SPECIFICS SI	ACH • 33) PECIFICS NKNOWN
II. Sane Traffeway Sane Direction	E Forward Impact	CONTROL/ TRACTION LOSS AVOID COLLISION WITH VEH. AVOID COLLISION WITH OBJECT OTHER	BPECIFICS UNKNOWN
_	F Sideswipe Angle	44 45 (EACH • 48) (EACH • SPECIFICS OTHER SPECIFICS	49) UNKNOWN
ay Tion	G Head-On	60 51 (EACH - 62) (EACH - 63) SPECIFICS SPECIFICS UNKNOWN	
Same Trafficway Oppiwile Difection	H Forward Impact	CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEH. SS CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEH. SS CONTROL/ AVOID COLLISION WITH OBJECT OTHER	SPECIPICS UNKNOWN
=	1. Sideswipe: Angle	SPECIFICS SPECIFICS UNKNOWN LATERAL MOVE OTHER	
Change Trafficway Vehicle Turning	J. Turn Across Path	I MII ME ELLEGIS MILITE MAND DIVIDALIANA	(EACH • 75) SPECIFICS UNKNOWN
1V. Change Trafficw Vehicle Turning	K. Turn Into Path	TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTIONS OTHER	(EACH • 85) SPECIMOS UNKNOWN
V Intersecting Paths (Vehicle Damage)	L. Straight Paths	(EACH • 90) (EACH • 91)	
VI Miscel- laneous	M. Backing Etc.	SO OTHER VEH. OR OBJECT BACKING VEH. 98 Other Accident Type 99 Unknown Accident Type 00 No Impect	

.5

1	Highest
29. Basis for Total Delta V (highest)	32. Lateral Component of Delta V O O
 Delta V Calculated (1) CRASH program—damage only routine (2) CRASH program—damage and trajectory routine (3) Missing vehicle algorithm Delta V Not Calculated (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions. (5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction technique, regardless of adequacy of damage data. (6) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data 	Nearest kph (highest) Nearest kph (secondary) (NOTE:000 means greater than -0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above (999) Unknown 33. Energy AbsorptionO190 0 19916 Nearest 100 joules (highest) Nearest 100 joules (secondary) (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown
available. COMPUTER GENERATED DELTA V Highest 30. Total Delta V Nearest kph (highest) Nearest kph (secondary)	34. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
(NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown	35. Type of Vehicle Inspection (0) No inspection (1) Complete inspection (2) Partial inspection (specify):
31. Longitudinal Component of Delta V Nearest kph (highest) Nearest kph (secondary) (NOTE:000 means greater than -0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above (999) Unknown	36. Is this an AOPS Vehicle? (0) No (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts
IS OLDMISS APPLICABLE FOR T	HIS VEHICLE? [] YES [J/NO
	M SUMMARY INCLUDED? [] YES [] NO

, and the state of		a dystem. General vehicle form
37. Police Reported Other Drug Presence (0) No other drug(s) present (1) Yes [other drug(s) present]	0	DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER
(1) Yes (other drug(s) present) (7) Not reported (8) No driver present (9) Unknown		DEC Specimen Test Test Results Results
38. Police Reported Drug Evaluation Classification (DEC) Test For Driver (0) No DEC process available or given (1) DEC process given, results known (2) DEC process given, results unknown (3) DEC process available, unknown if given (8) No driver present	n <u>0</u>	Narcotic Drug 40. O 41. O Depressant Drug 42. O 43. O Stimulant Drug 44. O 45. O Hallucinogen Drug 46. O 47. D Cannabinoid Drug 48. O 49. D Phencyclidine (PCP) 50. O 51. O Inhalant Drug 52. O 53. O Other Drug (Excluding 54. O 55. O Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash)
39. Other Drug Specimen Test Type For Driver (0) No specimen test given (1) Blood test (2) Urine test (3) Other specimen tests (specify): (7) Unspecified specimen test (8) No driver present	0	Codes For DEC Test Results (0) No DEC test given (1) Passed DEC test (2) Failed DEC test (3) DEC test given—results unknown (8) No driver present (9) Unknown if DEC test given Codes for Specimen Test Results
(9) Unknown if specimen test given		 (0) No specimen test given (1) Drug not found in specimen (2) Drug found in specimen (7) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given
•		
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OTHER DATA	61. Rollover Initiation Object Contacted OO
56. Driver's Zip Code	
(00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown	62. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane
57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify): (9) Unknown	(3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown 63. Direction of Initial Roll (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis
(0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance (7) Fire truck or car (8) Other (specify): (9) Unknown	(5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction PRECRASH DATA 64. Pre-Event Movement (Prior to Recognition of Critical Event)
ROLLOVER DATA	
If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.	(01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle
59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type	 (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
60. Location of Rollover Initiation	(98) No driver present (99) Unknown
 (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (9) Unknown 	

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover	(57) Fence
(01-30) — Vehicle Number	(58) Wall
	(59) Building
Noncollision	(60) Ditch or culvert
(31) Turn-over — fall-over	(61) Ground
(33) Jackknife	(62) Fire hydrant
	(63) Curb
Collision With Fixed Object	(64) Bridge
(41) Tree (≤ 10 cm in diameter)	(68) Other fixed object (specify):
(42) Tree (> 10 cm in diameter)	(ce, canal and capet (epochy).
(43) Shrubbery or bush	(69) Unknown fixed object
(44) Embankment	(00) 000 000 000 000 000 000 000 000 000
	Collision with Nonfixed Object
(45) Breakaway pole or post (any diameter)	(71) Motor vehicle not in-transport
	(76) Animal
Nonbreakaway Pole or Post	(77) Train
(50) Pole or post (≤ 10 cm in diameter)	(78) Trailer, disconnected in transport
(51) Pole or post (> 10 cm but \leq 30 cm in	(79) Object fell from vehicle in-transport
diameter)	(88) Other nonfixed object (specify):
(52) Pole or post (> 30 cm in diameter)	(ee, ee, ee, ee, ee, ee, ee, ee, ee, ee,
(53) Pole or post (diameter unknown)	(89) Unknown nonfixed object
(54) Concrete traffic barrier	(98) Other event (specify):
(55) Impact attenuator	
(56) Other traffic barrier (includes guardrail)	(99) Unknown event or object
(specify):	

PRECRASH DATA (Continued) 50 Pedestrian or Pedalcyclist, or Other Nonmotorist 65. Critical Precrash Event (80) Pedestrian in roadway This Vehicle Loss of Control Due To: (81) Pedestrian approaching roadway (O1) Blow out or flat tire (82) Pedestrian—unknown location (02) Stalled engine (83) Pedalcyclist or other nonmotorist in roadway (specify): (03) Disabling vehicle failure (e.g., wheel fell off) (specify): (84) Pedalcyclist or other nonmotorist approaching (04) Non-disabling vehicle problem (e.g., hood flew roadway (specify): (85) Pedalcyclist or other nonmotorist-unknown up) (specify): (05) Poor road conditions (puddle, pot hole, ice, etc.) location (specify): (specify): (06) Traveling too fast for conditions Object or Animal (87) Animal in roadway (08) Other cause of control loss (specify): (88) Animal approaching roadway (09) Unknown cause of control loss (89) Animal-unknown location (90) Object in roadway This Vehicle Traveling (91) Object approaching roadway (10) Over the lane line on left side of travel lane (92) Object-unknown location (11) Over the lane line on right side of travel lane (12) Off the edge of the road on the left side (98) Other critical precrash event (specify): (13) Off the edge of the road on the right side (14) End departure (99) Unknown (15) Turning left at intersection (16) Turning right at intersection (17) Crossing over (passing through) intersection For Corrective Actions Attempted see variable GV14 (19) Unknown travel direction (Attemped Avoidance Manuever) Other Motor Vehicle In Lane (50) Stopped 66. Precrash Stability After Avoidance Maneuver (51) Traveling in same direction with lower speed (0) No avoidance maneuver (i.e., lower steady speed or decelerating) (1) Tracking (52) Traveling in same direction with higher speed (2) Skidding longitudinally-rotation less than 30 (53) Traveling in opposite direction degrees (54) In crossover (3) Skidding laterally—clockwise rotation (55) Backing (4) Skidding laterally—counterclockwise rotation (59) Unknown travel direction of other motor vehicle (7) Other vehicle loss-of-control (specify): in lane (8) No driver present Other Motor Vehicle Encroaching Into Lane (60) From adjacent lane (same direction)—over left (9) Precrash stability unknown lane line (61) From adjacent lane (same direction)—over right lane line 67. Precrash Directional Consequences of (62) From opposite direction—over left lane line Avoidance Maneuver (Corrective Action) (63) From opposite direction—over right lane line (0) No avoidance maneuver (64) From parking lane (1) Vehicle stayed in travel lane where avoidance (65) From crossing street, turning into same maneuver was initiated direction (2) Vehicle stayed on roadway but left travel lane (66) From crossing street, across path where avoidance maneuver was initiated (67) From crossing street, turning into opposite (3) Vehicle stayed on roadway, not known if left direction (68) From crossing street, intended path not known travel lane where avoidance maneuver was initiated (70) From driveway, turning into same direction (71) From driveway, across path (4) Vehicle departed roadway (72) From driveway, turning into opposite direction (5) Avoidance maneuver initiated off roadway (73) From driveway, intended path not known (8) No driver present (74) From entrance to limited access highway (9) Directional consequences unknown (78) Encroachment by other vehicle-details unknown *** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35=0), ***

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE *** THE EXTERIOR VEHICLE, INTERIOR VEHICLE, OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.



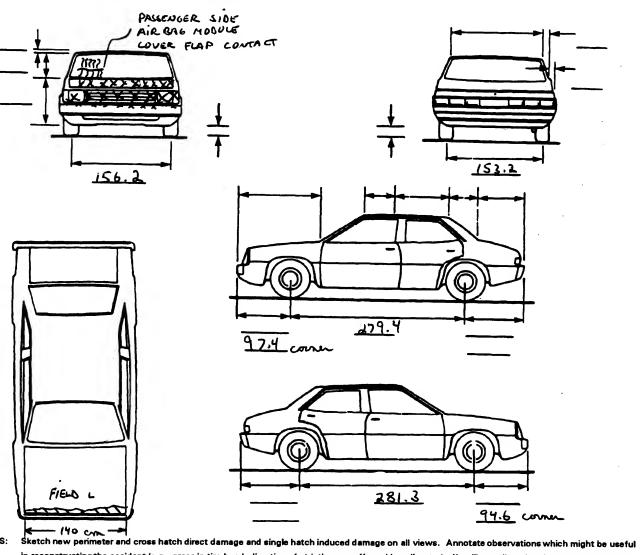
u.s.	Department of Transportation
Natio Adm	onal Highway Traffic Safety hinistration

U.S. Department of Trans National Highway Traffic Administration	•	EX	TERIOR	VEHI	CLE F	ORM	NA			SAMPLING	
	1. Primary Sampling Unit Number 2. Case Number - Stratum			_ 3 L	. Vehicl	e Numb	er) (
		,	VEHICLE	IDENTI	FICAT	ION					
VIN 1 6 3	<u> </u>	<u>52 L</u>	9 R	<u>ч</u> =				_	Model \	ear 9	4
Vehicle Make (spec	Vehicle Make (specify): OLD SMOBILE Vehicle Model (specify): 98 REGENCY ELITE										
			L	OCATO)R						
Locate the end of or an undamaged			ct to the vel	hicle lon	gitudina	l center	line or b	oumper (corner f	or end ir	npacts
Specific Impact N	lo.	Location	of Direct D	amage			L	ocation	of Field	L	
1	BUMPI	RFACIA	HOOD FAC	<u>x</u>		Fuu	FROUT	AL u	HJOIN		•
	13	4.6 cm (53.0′)			140 cm (55.125")					
		0.011	AU 22 45		N-W-10						
NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space). Measure and document on the vehicle diagram the location of maximum crush. Measure C1 to C6 from driver to passenger side in front or rear impacts and rear to front in side impacts. Free space value is defined as the distance between the baseline and the original body contour taken at											
the indiv side tape	idual C loca er, etc. Rec	tions. This ord the valu	may include e for each	e the fol C-measu	lowing: rement	bumper and ma	lead, b ximum (umper t	aper, si	de protri	usion,
Specific Plane	of Impact	olumns as n Direct D Width	_	describ Field	e each	damage C ₂	profile.	C ₄	C ₆	C ₆	±D
Number C-iviea	surements	(CDC)	Crush	<u> </u>		J 2	U3				
	RAD	.04. /								. ^	
\$1	PPORT	134.6	25.1	140	9.1	24.4	19.7	16.8	14.2	2.3	٥
				<u> </u>							
										<u> </u>	

ORIGINAL SPECIFICATIONS WORK SHEET

					2 2 1
Wheelbase	110.7	inches	x 2.54	=	<u>2</u> <u>8</u> <u>1</u> cm
Overall Length	<u>205.5</u>	inches	x 2.54	=	<u>5 2 2</u> cm
Maximum Width	<u> </u>	inches	x 2.54	=	<u>189</u> cm
Curb Weight	3,512	pounds	x .4536	=	, <u>5 8 0</u> kg
Average Track	<u>60.9</u>	inches	x 2.54	=	<u>155</u> cm
Front Overhang		inches	x 2.54	=	cm
Rear Overhang	·_	inches	x 2.54	=	cm
Undeformed End Width	<u> </u>	inches	x 2.54	=	
Engine Size: cyl./displ.	3800	СС	x .001	=	<u>3.8</u> L
		CID	x .0164	=	L

National Accident Sampling System-Crashworthiness Data System: Exterior Vehicle Form Page						
N The second sec	VEHICLE DAMAGE SKETCH					
TIRE—WHEEL DAMAGE a. Rotation physically b. Tire restricted deflated RF O	Overall Length Maximum Width Curb Weight Average Track 522 189 1580 155	WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only) RF ± o LF ± o RR ± o LR ± o Within ± 5 degrees DRIVE WHEELS				
TYPE OF TRANSMISSION Manual Automatic Y- CPEED	Rear Overhang	cm				
PASSEN. Air Gr	MEASUREMENTS IN CENTIMETERS GER SIDE GE MODULE FLAP CONTACT					



NOTES: in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

			CDC \	VORKSHE	ΕT			
		С	ODES FOR	OBJECT CO	TACTED			
(01-30)) – Vehicle Nu	ımher		(5	7) Fence	1		
1 (0.00)	, vernole ive				8) Wall	•		
Noncol	licion				9) Buildi	00	."	
	Overturn — r	ollover				or culvert		
					1) Grour			
	(32) Fire or explosion (33) Jackknife				2) Fire h			
1		it damage (specif	5.1.		2) Curb	yuranı		
(34)	Other intraum	it damage (specii	у).		4) Bridge			
/25\	Negatiaian i					fixed object (angaiful:	
	Noncollision i	ision (specify):		10	o, Other	lixed Object (specify.	
1301	Other Horicon	ision (specify).		16	a) Haka	own fixed obje		
(30)	Noncollision	- details unknow	<u>'D</u>	_ (0	onkin	JWII IIXEU ODJE	;CL	
(39)	MONCOMSION -	- details diskilow	/11	Callid	vion with	Nonfixed Obje	not	
Callinia	- Mich Fired C	\hiaa+				r vehicle not in		
	n With Fixed C Tree (≤ 10 c				2) Pedes		i-transport	
					•			
	Tree (> 10 c					t or cycle		_
	Shrubbery or	bush		(7)	4) Other	nonmotorist of	or conveyand	e
(44)	Embankment				- 17 1 :			
	_					le occupant		
(45)	Breakaway po	ole or post (any d	liameter)		6) Anima	al		
		_			7) Train			
	akaway Pole o					r, disconnecte		
		≤ 10 cm in diam				t fell from veh		port
(51)		> 10 cm but ≤	30 cm in	(8	8) Other	nonfixed obje	ct (specify):	
	diameter)					own nonfixed		
		> 30 cm in diam		(8				
(53)	Pole or post (diameter unknow	/n)					
				(9	8) Other	event (specify	y):	
	Concrete traf							
	Impact attenu			(9	9) Unkn	own event or	object	
(56)		barrier (includes (guardrail)					
	(specify):			_				
		DEFORMAT	ION CLASS	IFICATION E	BY EVENT	NUMBER		
		(4) (0)			(4)	(5)	(0)	
Accident Event		(1) (2)	Incremental	12)	Specific		(6) Time of	(7)
Sequence	e Object	Direction of Force	Value of	(3) Deformation	Longitudin or Latera		Type of Damage	(7) Deformation
Number		(degrees)	Shift	Location	Location		Distribution	Extent
		(100,000)						
01	02	3 6 0	00	F	0	M	w	0 1
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		COLLISIO	N DEFORMA	TION CLAS	SIFICATIO	N		
HIGHEST	DELTA "V"							
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force		(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent	
4. 0 1	5. <u>0</u> 2	6. <u> </u>	7. <u>F</u>	8. <u> </u>	9. <u>M</u>	10. <u>W</u>	11. <u>0</u> <u>(</u>	
Second Hi	Second Highest Delta "V"							
12	13	14	15	16	17	18	19	
		CRL	JSH PROFILE	IN CENTIM	ETERS			
	The crush pro- in the appr	file for the o opriate spac	lamage described e below. (ALL N	I in the CDC(s) MEASUREMENT	above should IS ARE IN CEN	be documente NTIMETERS.)	ed ·	
HIGHEST	DELTA "V"							
20. 	21. 				C ₅	C ₆	22. 	
140	009	024	030	<u>017</u> _	ora c	<u>002</u>	000	
Second Hi	ghest Delta "V	· 9 1						
23. 	24. 	C ₂		C ₄	C ₆	C ₆	25. 	
							<u>+</u>	
26. Are CDCs Documented but Not Coded on The Automated File? (0) No (1) Yes 27. Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 28. Original Wheelbase 2 8 1						<u>381</u>		
					inches X 2	.54 =	centimeters	

	Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): (Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified Fire Occurrence (0) No fire Yes, fire occurred (1) Minor (2) Major	<u>o</u>	34. Fuel Tank-1 Location 35. Fuel Tank-2 Location (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered (5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify):
31.	Origin of Fire (0) No fire (1) Vehicle exterior (front side back top)	_0	(9) Unknown 36. Fuel Tank-1 Filler Cap Location
22	 (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify): (9) Unknown Type of Fuel Tank-1		37. Fuel Tank-2 Filler Cap Location (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle) on left side plane (3) Aft of center of the rear wheels (rear axle) on right side plane (4) Forward of center of the rear wheels (rear axle) on left side plane (5) Forward of center of the rear wheels (rear axle) on right side plane (6) Over the center of the rear wheels (rear axle) on left side plane
	Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown	<u></u>	(7) Over the center of the rear wheels (rear axle) on right side plane (8) Other (specify): (9) Unknown
	(o) Cinaio		38. Fuel Tank-1 Damage
			39. Fuel Tank-2 Damage (0) No fuel tank (1) No damage to fuel tank (2) Deformed, no seam failure (3) Deformed, with a seam failure (4) Punctured (5) Lacerated (ripped) (6) Abraded (scraped) (7) Filler neck separation from the fuel tank (8) Other damage (specify):

40.	Location of Fuel System-1 Leakage	44. Is This Vehicle Equipped With More Than Two Fuel Tanks?
41.	Location of Fuel System-2 Leakage O	(0) No (one or two tanks only)
	(0) No fuel tank (1) No fuel leakage Primary Area Of Leakage (2) Tank (3) Filler neck (4) Cap (5) Lines/pump/filter (6) Vent/emission recovery (8) Other (specify): (9) Unknown	Yes - More Than Two Tanks (1) Yes no damage to any tank or filler cap and no fuel system leakage (2) Yes no damage to any tank or filler cap but there is fuel system leakage (specify leakage location): (3) Yes damage to an additional tank or filler cap and there is fuel system leakage (specify the following): Type of tank Tank location
42.	Fuel Type-1O	Filler cap location Tank damage
43.	Fuel Type-2	Location of leakage
	Single Fuel Type (00) No fuel tank	Type of fuel
	(00) No fuel tank (01) Gasoline (02) Diesel (03) CNG (Compressed Natural Gas) (04) LPG (Liquid Petroleum Gas) also known as Propane (05) LNG (Liquid Natural Gas) (06) Methanol (M100 or M85) (07) Ethanol (E100 or E85) (08) Other (Hydrogen or others) (specify): Electric Powered or Electric/Solar Powered Vehicles (10) Lead Acid Battery (11) Nickel-Iron Battery (12) Nickel-Cadmium Battery (13) Sodium Metal Chloride Battery (14) Sodium Sulfur Battery (18) Other (Specify): (98) Other Hybrid (specify):	COMMENTS
**		WAS NOT TOWED AND WAS NOT AN AOPS *** OT COMPLETE THE INTERIOR VEHICLE FORM.

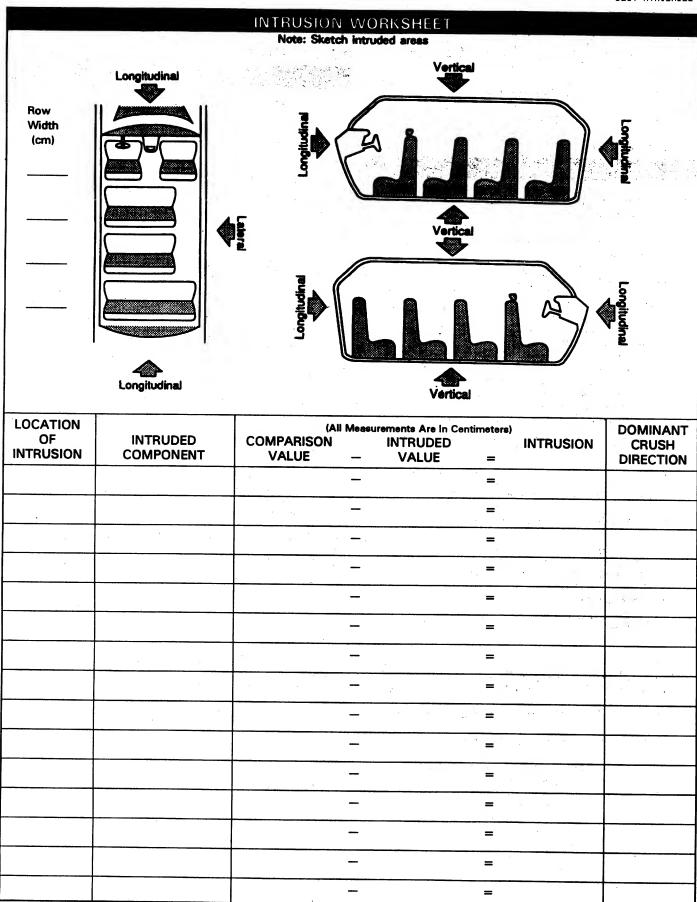


U.S. Department of Transportation

National Highway Traffic Safety Administration

INTERIOR VEHICLE FORM NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINGSS DATA SYSTEM

	GLAZING
1. Primary Sampling Unit Number	Glazing Damage from Impact Forces
2. Case Number - Stratum	15. WS <u>2</u> 16. LF <u>0</u> 17. RF <u>0</u> 18. LR <u>0</u> 19. RR <u>0</u>
3. Vehicle Number	20. BL <u>O</u> 21. Roof <u>4</u> 22. Other <u>8</u>
4. Passenger Compartment Integrity (00) No integrity loss	(0) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from
Yes, Integrity Was Lost Through (O1) Windshield (O2) Door (side) (O3) Door/hatch (back door) (O4) Roof (O5) Roof glass	impact forces (5) Glazing out-of-place and holed from impact forces (6) Glazing disintegrated from impact forces (7) Glazing removed prior to accident (8) No glazing (9) Unknown if damaged
(06) Side window (07) Rear window (backlight)	Glazing Damage from Occupant Contact
(08) Roof and roof glass (09) Windshield and door (side) (10) Windshield and roof	23. WSO 24. LFO 25. RFO 26. LRO 27. RRO
(10) Windshield and root (11) Side and rear window (side window and backlight) (12) Windshield and side window	28. BL_ <u></u>
(13) Door and side window (98) Other combination of above (specify):	(0) No occupant contact to glazing or no glazing (1) Glazing contacted by occupant but no glazing damage (2) Glazing in place and cracked by occupant contact
(99) Unknown	(3) Glazing in place and holed by occupant contact (4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact (5) Glazing out-of-place by occupant contact and holed by
Door, Tailgate or Hatch Opening	occupant contact (6) Glazing disintegrated by occupant contact (9) Unknown if contacted by occupant
5. LF 6. RF 7. LR 8. RR 9. TG/H 6. No door/gate/hatch (1) Door/gate/hatch remained closed and operational	If No Glazing Damage <i>And</i> No Occupant Contact or No Glazing, Then Code IV31 Through IV46 As Ø
(2) Door/gate/hatch came open during collision (3) Door/gate/hatch jammed shut (8) Other (specify):	Type of Window/Windshield Glazing
(9) Unknown	31. WS <u>1</u> 32. LF <u>3</u> 33. RF <u>2</u> 34. LR <u>2</u> 35. RR <u>3</u>
*	36. BL <u>2</u> 37. Roof <u>2</u> 38. Other <u>0</u>
Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø	 (0) No glazing contact and no damage, or no glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted
10. LF 1 11. RF 1 12. LR 1 13. RR 1 14. TG/H O	(4) AS-14 — Glass/Plastic (8) Other (specify):
(O) No door/gate/hatch or door not opened	(9) Unknown
Door, Tailgate or Hatch Came Open During Collision (1) Door operational (no damage)	
(2) Latch/striker failure due to damage	Window Precrash Glazing Status
(3) Hinge failure due to damage (4) Door structure failure due to damage	39. WS 1 40. LF 2 41. RF 2 42. LR 2 43. RR 2
(5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage	44. BL 45. Roof_2 46. Other_O
(6) Latch/striker and hinge failure due to damage (8) Other failure (specify):	(0) No glazing contact and no damage, or no glazing (1)' Fixed
(9) Unknown	(1) Fixed (2) Closed (3) Partially opened (4) Fully opened (9) Unknown

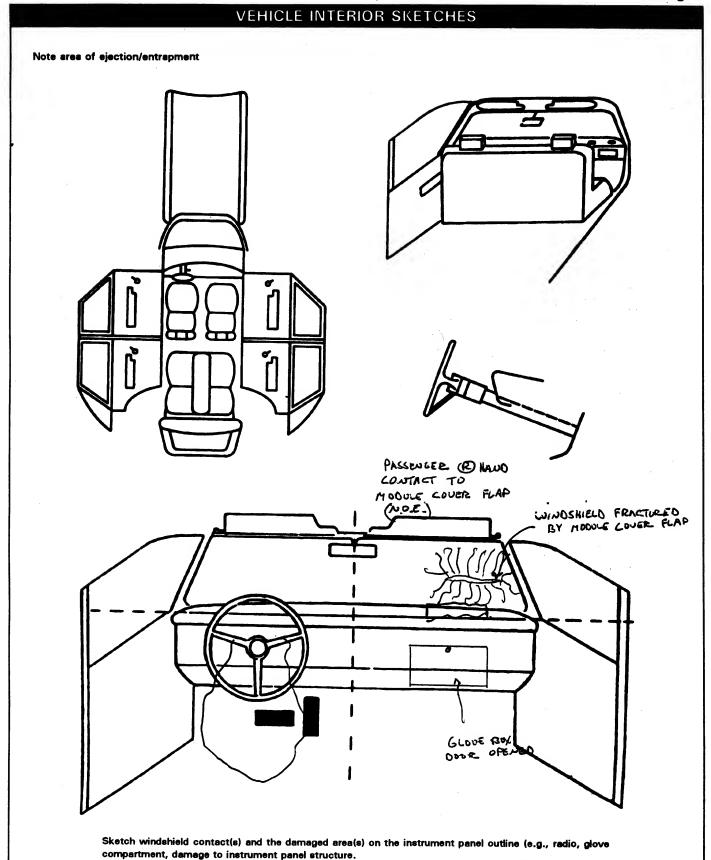


Page 2 OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT Interior Components Dominant Location of Intruding Magnitude Crush (01) Steering assembly Intrusion Component of Intrusion Direction (02) Instrument panel left (03) Instrument panel center (04) Instrument panel right 1st 47. 48. 49. (05) Toe pan 50.___ (06) A (A1/A2)-pillar NO INTRUSION (07) B-pillar (08) C-pillar 2nd 51.___ 52.__ 53.__ 54. (09) D-pillar (10) Door panel (side) (12) Roof (or convertible top) (13) Roof side rail 3rd 55.___ 56.__ 57.__ 58.__ (14) Windshield (15) Windshield header (16) Window frame (17) Floor pan (includes sill) 4th 59.___ 60.__ 61.__ 62. (18) Backlight header (19) Front seat back (20) Second seat back (21) Third seat back 5th 63.___ 64.__ 65.__ 66._ (22) Fourth seat back (23) Fifth seat back (24) Seat cushion (25) Back door/panel (e.g., tailgate) 6th 67.___ 68.___ 69.__ 70. (26) Other interior component (specify): (27) Side panel - forward of the A (A2)-pillar 7th 71.___ 72.__ 73. 74. (28) Side panel - rear of the A (A2)-pillar **Exterior Components** (30) Hood (31) Outside surface of this vehicle (specify): 8th 75.___ 76.__ 77.__ 78.__ (32) Other exterior object in the environment (specify): 9th 79.___ 80.___ 81.__ 82.___ (33) Unknown exterior object (97) Catastrophic (98) Intrusion of unlisted component(s) (specify): 10th 83.___ 84.__ 85. 86. (99) Unknown LOCATION OF INTRUSION **MAGNITUDE OF INTRUSION** (1) ≥ 3 centimeters but < 8 centimeters Front Seat **Fourth Seat** (2) ≥ 8 centimeters but < 15 centimeters (11) Left (41) Left (3) ≥ 15 centimeters but < 30 centimeters (12) Middle (42) Middle (4) ≥ 30 centimeters but < 46 centimeters (13) Right (43) Right (5) ≥ 46 centimeters but < 61 centimeters $(6) \ge 61$ centimeters **Second Seat** (97) Catastrophic (7) Catastrophic (21) Left (98) Other enclosed (9) Unknown (22) Middle area (specify) (23) Right (99) Unknown DOMINANT CRUSH DIRECTION Third Seat (1) Vertical (31) Left (2) Longitudinal (32) Middle (3) Lateral (33) Right (7) Catastrophic

(9) Unknown

STEERING	RIM/SPOKE DE	FORMATI	ON		To account to
	Measurements Are in Cen				
COMPARISON VALUE -	DAMAGE VALUE	_	DEFO	RMATION	
-		=		-	
_		=			
_		=			1
-		=	**		
		,	*	·	
	- 1				
				·	
	*			* 070	
•					

STEERING COLUMN	93. Location of Steering Rim/Spoke
87. Steering Column Type (1) Fixed column	Deformation (00) No steering rim deformation
(2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify):	Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D
(9) Unknown	Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke
88. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-94 CDS.	(09) Complete steering wheel collapse (10) Undetermined location (99) Unknown
	INSTRUMENT PANEL
89. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-94 CDS.	94. Odometer Reading kilometers—Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more (999) Unknown
90. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-94 CDS.	
91. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-94 CDS.	95. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown
92. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters	96. Knee Bolsters Deformed from Occupant Contact? (0) No (1) Yes (8) Not present (9) Unknown
(15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown	97. Did Glove Compartment Door Open During Collision(s)? (0) No (1) Yes (8) Not present (9) Unknown



Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

AUTOMATIC RESTRAINTS

NOTE		pplicable front seat position. The attrib hould be assessed during the vehicle in			
		AIR BAGS			
		Left	Right		
F	Availability/Function	l l	1		
Ř	Deployment	(
S T	Failure	1	l i		
(0) (1) <i>Non</i> - (2)	System Availability/Function Not equipped/not available Air bag -functional Air bag disconnected (specify): Air bag not reinstalled Unknown	Air Bag System Deployment (0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown	Are There Indications of Air Bag System Failure? (O) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown		
	Γ	Left	Right		
	Availability/Function	0	0		
F	Use		1		
R R	Туре				
S	Proper Use				
-	Failure Modes				
Availab (0) (1) (2) (3) <i>Non-</i> (4) (9) Automa (0) (1) (2)	atic (Passive) Belt System lity/Function Not equipped/not available 2 point automatic belts 3 point automatic belts Automatic belts - type unknown functional Automatic belts destroyed or rendered inoperative Unknown atic (Passive) Belt System Use Not equipped/not available/destroyed or rendered inoperative Automatic belt in use Automatic belt not in use (manually disconnected, motorized track inoperative) Automatic belt use unknown Unknown	Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):	Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify) (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify) (9) Unknown		
(0) (1) (2)	ntic (Passive) Belt System Type Not equipped/not available Non-motorized system Motorized system Unknown	system (specify): (9) Unknown			

Contact		Occupant No. If Known	Body Region If Known	Supporting Pl	-	Evidence	Confidence Level of Contact Point
Α	17	2	CUAH (S)	NONE, FRACTO	DRES		
В							
С		×				-	
D							
E							—
F							+
G							
Н	-						
ı							
J							
K							
L							
N	-		+				
(05) Steed of C (07) Steed sele (08) Add decl (09) Left (10) Cen (11) Righ (12) Glov (13) Kned (14) Windows (15) Windows (15) Windows (15) Windows (16) Driv (16) Driv (16)	ering wheel rim ering wheel hub/spok ering wheel (combina codes 04 and 05) ering column, transm ector lever, other atta d on equipment (e.g., k, air conditioner) t instrument panel an eter bolster door on a seering assem eter or steering assem eter instrument panel an eter instrument panel eter in	ation nission schment , CB, tape and below and below and below or e or more eader, nent panel, nbly (driver eader, sent panel, or nly)	(25) Left side (26) Left side one or m frame, w B-pillar, c (27) Other lef (28) Left side RIGHT SIDE (30) Right side (32) Right side (32) Right B-p (34) Other rig (35) Right side one or m frame, w B pillar, c (37) Other rigi	le interior surface, g hardware or armrests le hardware or armrest (A1/A2)-pillar	(48) (49) ROOF (50) (51) (52) (53) (54) FLOOR (56) (57)	Front header Rear header Roof left side rail Roof or convertible Floor (including toe Floor or console motransmission lever, console Parking brake handl Foot controls including brake Backlight (rear wind Backlight storage rail	specify): at (specify): top pan) ounted including lle ding parking dow) ack, door, etc.
com	senger side air bag npartment cover idshield reinforced by		NTERIOR (40) Seat, bac	ck eunnart		-	
obje (19) Othe LEFT SIDE	ect (specify): er front object (specif	ify):	(41) Belt restr (42) Belt restr attachme	raint webbing/buckle raint B-pillar ent point straint system component		CONFIDENCE LEV CONTACT POI	
	side interior surface, luding hardware or an	•	(44) Head rest	traint system		(2) Probable	
(21) Left	idding nardware or an ∶side hardware or am ∶A (A1/A2)-pillar		for injune	(use codes "16" and "17" es sustained from air bag		(3) Possible (9) Unknown	ı

Page 6

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous

		Left	Center	Right
E	Availability	4	3	Ч
'n	Evidence of usage	04		04
R	Used in this crash?	04	-	04
S	Proper Use	1		
'	Failure Modes \			1
9	Availability	ч	3	4
Ĕ	Evidence of usage	-	-	
င္က	Used in this crash?			· · · · · · · · · · · · · · · · · · ·
⊗⊞COZC	Proper Use			
D	Failure Modes			
0	Availability			
ř	Evidence of usage			
Ĥ	Used in this crash?			
E	Proper Use			
R	Failure Modes			

Manual	(Activa)	Belt System	Availabilita
Manua	(ACTIVE)	Beit System	

- None available
- Belt removed/destroyed
- Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt
- destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt
- removed/destroyed
- (01) Inoperable (specify):
- (02)Shoulder belt
- (03)Lap belt
- (04)Lap and shoulder belt
- Belt used type unknown Other belt used (specify): (05)
- (08)
- Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat -
- type unknown
- Other belt used with child safety seat
- (specify):
- Unknown if belt used

Proper Use of Manuai (Active) Belts

- (0) None used or not available
- Belt used properly
- (2) Belt used properly with child safety seat

Belt Used Improperty

- Shoulder belt worn under arm
- Shoulder belt worn behind back or seat
- Belt worn around more than one person (5)
- Lap belt worn on abdomen (6)
- Lap belt or lap and shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of manual belt system (specify):
- (9) Unknown

Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- Broken buckle or latchplate
- Upper anchorage separated
- (5) Other anchorage separated (specify):
- **Broken retractor**
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

Whe	n a child safety seat is present enter the	occupant's n	uml	LD ASSESSIMENT ber in the first row and complete the column below
the d	ccupant's number using the codes liste	d below. Co	omp	plete a column for each child safety seat present.
Occi	upant Number			
	Type of Child Safety Seat			
	Child Safety Seat Orientation			
	Child Safety Seat Harness Usage			
	Child Safety Seat Shield Usage			
	Child Safety Seat ether Usage			
	Child Safety Seat Make/Model	Specif	fy B	Below for Each Child Safety Seat
1. 7	ype of Child Safety Seat		3.	. Child Safety Seat Harness Usage
. ((No child safety seat Infant seat Toddler seat Convertible seat Booster seat Other type child safety seat (specify)) :		 Child Safety Seat Shield Usage Child Safety Seat Tether Usage Note: Options Below Are Used for Variables 3- (00) No child safety seat
(B) Unknown child safety seat type B) Unknown if child safety seat used	-		Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether added, not used
	Child Safety Seat Orientation (00) No child safety seat			(02) After market harness/shield/tether used (03) Child safety seat used, but no after market
	esigned for Rear Facing for his Age/Weight D1) Rear facing			harness/shield/tether added (09) Unknown if harness/shield/tether added or used
((D2) Forward facing D8) Other orientation (specify):			Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used
	09) Unknown orientation			(19) Unknown if harness/shield/tether used
(° (°	esigned for Forward Facing for This ge/Weight 11) Rear facing 12) Forward facing			Unknown If Designed With Harness/Shield/Teth (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used
	Other orientation (specify):Unknown orientation			(99) Unknown if child safety seat used
L A	nknown Design or Orientation For This ge/Weight, or Unknown Age/Weight		6.	Child Safety Seat Make/Model (Specify make/model and occupant number)
(2	21) Rear facing 22) Forward facing 28) Other orientation (specify):			10
	29) Unknown orientation			
	99) Unknown if child safety seat used			
,,				

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	Head Restraint Type/Damage 3		-	3
I R	Seat Type	06	06	06
S	Seat Performance	l	1	1
ı	Seat Orientation	l)	1
S	Head Restraint Type/Damage	0	0	O.
E C	Seat Type	03	0 3	03
O N	Seat Performance	l	1	(
D	Seat Orientation		1	ì
Т	Head Restraint Type/Damage			
1	Seat Type			
Ŕ	Seat Performance			
D	Seat Orientation			
0	Head Restraint Type/Damage			
Ť	Seat Type	7)		i
E	Seat Performance		-	
R	Seat Orientation			

Head Restraint Type/Damage by Occupant at This Occupant Position

- (0) No head restraints
- (1) Integral no damage
 (2) Integral damaged during accident
 (3) Adjustable no damage
- (4) Adjustable damaged during accident
- (5) Add-on no damage(6) Add-on damaged during accident
- (8) Other Specify):
- (9) Unknown

Seat Type (this Occupant Position)

- (00) Occupant not seated or no seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT **CONTACT PATTERN)**

EJECTION No [Yes [Describe indications of ejection an		volved in parti	al ejection	ı(s):		
Occupant Number						
Ejection (Note on Vehicle Interior Sketch)		,	·			
Ejection Area						
Ejection Medium						
Medium Status						
ection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown ection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear	(7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown Ejection Medium (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):		(5) Integral structure (8) Other medium (specify): (9) Unknown Medium Status (Immediately Pricto Impact) (1) Open (2) Closed (3) Integral structure (9) Unknown			
NTRAPMENT No [-			
					*	ī
omponent(s):						



OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum 94-14	10. Occupant's Seat Position Front Seat
3. Vehicle Number	(11) Left side (12) Middle
4. Occupant Number O	(13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify): (15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant Third Seat (31) Left side
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	(32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknowninches X 2.54 =centimeters	(97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown pounds X .4536 =kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

EJEQ	CTION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	0	15. Medium Status (Immediately Prior To Impact)
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof	_0	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown
(8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown 14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):	<u>O</u>	17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or not oriented to time or place (2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify):
(5) Integral structure (8) Other medium (specify): (9) Unknown		(9) Unknown
·		
	·	

	BELT SYSTE	M FUNCTION
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage
	(5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	(2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
19.	(9) Unknown Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt	23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative
	 (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): 	(9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown
20.	(99) Unknown if belt used Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly	25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown
	 (2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): (9) Unknown 	26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify):	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify):
		(8) Other automatic belt failure (specify): (9) Unknown

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. [32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify):

	FIRST SEAT FRONTAL AIR I	BAG SYSTEM EVALUATION
35.	Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36.	Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	 41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed
	Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available	 (9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged? (O) Not equipped/not available (1) No (2) Yes (specify):
	Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39.	CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44.	Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify):	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):
45.	(95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps):	50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify):
46.	(3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports):	(99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):
	(3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify):	(9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Soat at middle track position
48.	(3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	 (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

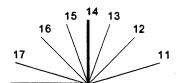
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

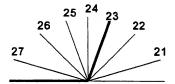
Slightly reclined prior to impact

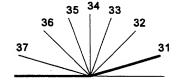
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







	CHILD SA	FETY SEAT
55.	Child Safety Seat Make/Model (000) No child safety seat	58. Child Safety Seat Harness UsageO_O_
	Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat	59. Child Safety Seat Shield UsageO_O_
	(997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used	60. Child Safety Seat Tether Usage Note: Options below applicable to
56	Type of Child Safety Seat	Variables OA58-OA60. (00) No child safety seat
50.	(0) No child safety seat	Not Designed With Homese/Shield/Tether
	(1) Infant seat	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether
	(2) Toddler seat	added, not used
	(3) Convertible seat	(02) After market harness/shield/tether used
	(4) Booster seat - with shield	(03) Child safety seat used, but no after market
	(5) Booster seat - without shield(7) Other type child safety seat (specify):	harness/shield/tether added
	(7) Other type child safety seat (specify):	(09) Unknown if harness/shield/tether added or used
	(8) Unknown child safety seat type	added of dised
	(9) Unknown if child safety seat used	Designed With Harness/Shield/Tether
		(11) Harness/shield/tether not used
	Child Safety Seat Orientation	(12) Harness/shield/tether used
5/.	Child Safety Seat Orientation (00) No child safety seat	(19) Unknown if harness/shield/tether used
	Designed for Rear Facing for This Age/Weight	Unknown If Designed With Harness/Shield/Tether
	(01) Rear facing	(21) Harness/shield/tether not used (22) Harness/shield/tether used
	(02) Forward facing	(29) Unknown if harness/shield/tether used
	(08) Other orientation (specify):	(25) Similaria Mariado, Sinicia, Estrici aseg
	(09) Unknown orientation	(99) Unknown if child safety seat used
	Designed For Forward Facing for This Age/Weight	
	(11) Rear facing	
	(12) Forward facing	
	(18) Other orientation (specify):	
	(19) Unknown orientation	
	Unknown Design or Orientation For This	
	Age/Weight, or Unknown Age/Weight	
	(21) Rear facing	
	(22) Forward facing	·
	(28) Other orientation (specify):	
	(29) Unknown orientation	
	(99) Unknown if child safety seat used	

National Accident Sampling System-Crashworthiness Da	nta System: Occupant Assessment Form Page
INJURY CONSEQUENCES	
61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
_	
STOP W	ORK HERE
VARIAB	LES 66-74
TO BE CODED BY	THE ZONE CENTER
:	
· .	

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES	TRAUMA DATA
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given
Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled	73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
disease) (specify):	BELT USE DETERMINATION
70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used



U.S. Department of Transportation National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number	3. Vehicle Number	01
2. Case Number - Stratum 9 4- 1 4	4. Occupant Number	01

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	A.I.S 90									Injury	Injury	
	Source of Injury Data		Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect		njury ource	Source Confidence Level	Direct/ Indirect Injury	Occupar Area Intrusion Numbe
1st	5	60	7 O	8. <u>0 0</u>	9. <u>0 0</u>	10 <i>_</i>	11. <u>0</u>	12. <u>(</u>	900	13. <u>D</u>	14. <u>O</u>	15. <u>0</u> 0
2nd	16	17	18	19	20	21	22	23		24	25	26
											*	
3rd	27	28	29,	30	31,	32	33	34		35	36	37
4th	38.	39.	40.	41.	42.	43.	44.	45.		46.	47.	48.
76.1											47.	40
5th	49	50	51	52	53.	54	55	56		57	58	59
	*											
6th	60	61	62	63	64	65	66	67		68	69	70
7th	71	72	73	74	75	76	77	78		79	80	81
· · ·	•											
8th	82	83	84,	85	86	87	88	89		90	91,	92
9th	93.	94	95	96.	97	98.	99.	100.		101,	102.	103.
10th	104 1	05	1061	107	108	109	110	111		112	113	114
											* 1.1.1	62 62

OCCUPANT INJURY CLASSIFICATION **Body Region Specific Anatomic** Level of Injury Aspect Structure Head Specific injuries are (1)Right **Face** assigned consecutive (2)Left (3) (3)Neck Vessels, Nerves, Organs. two-digit numbers **Bilateral** (4)Thorax Bones, Joints are assigned beginning with 02. (4)Central Abdomen (5)(5)consecutive two digit Anterior (6)Spine numbers beginning with To the extent possible, (6) **Posterior** (7)**Upper Extremity** 02. within the organizational (7)Superior framework of the AIS, 00 **Lower Extremity** (8)(8)Inferior Unspecified The exceptions to this rule is assigned to an injury (9) Unknown (9) apply to: NFS as to severity or **(O)** Whole region where only one injury is given in the dictionary for Type of Anatomic Whole Area (02) Skin - Abrasion (04) Skin - Contusion Structure that anatomic structure. 99 is assigned to any Whole Area (06) Skin - Laceration injury NFS as to lesion or (2)Vessels (08) Skin - Avulsion severity. (10) Amputation (3)Nerves (4)Organs (includes (20) Burn Abbreviated Injury Scale Muscles/ligaments) (30) Crush (5) Skeletal (includes (40) Degloving (1)Minor Injury Injury - NFS Moderate Injury (50)(2)ioints) Head - LOC (90)Trauma, other than (3)Serious Injury (6)Severe Injury (9) Skin mechanical (4)(5) Critical Injury Head - LOC (6) Maximum (02) Length of LOC (untreatable) (7) Injured, unknown (O4) Level severity (06) of (08) Consciousness

(10) Concussion

(02) Cervical (04) Thoracic (06) Lumbar

Spine

	SOURCE OF INJURY DATA	INJURY SOURCE	DIRECT/INDIRECT INJURY
		CONFIDENCE LEVEL	
8	OFFICIAL RECORDS (1) Autopsy records with or without hospital/medical records (2) Hospital/medical records other than emergency room (e.g., discharge summary) (3) Emergency room records only (including associated X-rays or other lab reports) (4) Private physician, walk-in or emergency clinic UNOFFICIAL RECORDS (5) Lay coroner report (6) E.M.S. personnel (7) Interviewee (8) Other source (specify):	(1) Certain (2) Probable (3) Possible (9) Unknown	(1) Direct contact injury (2) Indirect contact injury (3) Noncontact injury (7) Injured, unknown source
	(9) Police		

FRON		(102)	Right side hardware or	(183)	Air bag-passenger side and	(411)	Wall mounted head rest
(001)	Windshield		armrest		object held		(used behind wheel chair)
(002)			Right A (A1/A2)-pillar	(184)	Air bag-passenger side and	(412)	Other adaptive device
	Sunvisor		Right B-pillar		object in mouth		(specify):
004)	Steering wheel rim	(105)	Other right pillar (specify):	(185)	Air bag compartment		
(005)	-				cover-passenger side		
(006)	•		Right side window glass	(186)	Air bag compartment	EXTER	IIOR of OCCUPANT'S
	of codes 004 and 005)		Right side window frame		cover-passenger side and	VEHIC	LE
(007)	Steering column,		Right side window sill		eyewear	(451)	Hood
	transmission selector lever,	(109)	Right side window glass	(187)	Air bag compartment	(452)	Outside hardware (e.g.,
	other attachment		including one or more of the		cover-passenger side and		outside mirror, antenna)
008)	Cellular telephone or CB		following: frame, window		jewelry	(453)	Other exterior surface or
	radio		sill, A (A1/A2)-pillar, B-pillar,	(188)	Air bag compartment		tires (specify):
009)	Add on equipment (e.g.,		or roof side rail.		cover-passenger side and		
	tape deck, air conditioner)	(110)	Other right side object		object held		
010)	Left instrument panel and		(specify):	(189)	Air bag compartment	(454)	Unknown exterior objects
	below				cover-passenger side and		
011)	Center instrument panel and				object in mouth	EXTER	IOR OF OTHER MOTOR
	below	INTER		(190)	Other air bag (specify)	VEHIC	LE
012)	Right instrument panel and		Seat, back support			(501)	Front bumper
	below	(152)	Belt restraint webbing/buckle	(195)	Other air bag compartment	(502)	Hood edge
	Glove compartment door	(153)	Belt restraint B-pillar or door		cover (specify)	(503)	Other front of vehicle
014)	Knee bolster		frame attachment point				(specify):
015)	Windshield including one or	(154)	Other restraint system				•
	more of the following: front		component (specify):	ROOF		(504)	Hood
	header, A (A1/A2)-pillar,			(201)	Front header	(505)	Hood ornament
	instrument panel, mirror, or	(155)	Head restraint system	(202)	Rear header		Windshield, roof rail, A-pilla
	steering assembly (driver	(160)	Other occupants (specify):	(203)	Roof left side rail		Side surface
	side only)			(204)	Roof right side rail	(508)	Side mirrors
016)	Windshield including one or	(161)	Interior loose objects	(205)	Roof or convertible top		Other side protrusions
	more of the following: front	(162)	Child safety seat (specify):		•		(specify):
	header, A (A1/A2)-pillar,			FLOOR	3		
	instrument panel, or mirror	(163)	Other interior object	(251)	Floor (including toe pan)	(510)	Rear surface
	(passenger side only)		(specify):		Floor or console mounted		Undercarriage
017)	Windshield reinforced by				transmission lever, including		Tires and wheels
	exterior object (specify)				console		Other exterior of other motor
		AIR BA	NG	(253)	Parking brake handle	(0.0)	vehicle (specify):
019)	Other front object (specify):	(170)	Air bag-driver side		Foot controls including		vernicie (specify).
			Air bag-driver side and	,,,	parking brake	(514)	Unknown exterior of other
			eyewear		parking brake	(314)	motor vehicle
EFT S	SIDE	(172)	Air bag-driver side and	REAR			motor verile
051)	Left side interior surface,		jewelry		Backlight (rear window)	OTHER	VEHICLE OR OBJECT IN
	excluding hardware or	(173)	Air bag-driver side and object		Backlight storage rack,		
	armrests	,,,,	held	(302)	A		IVIRONMENT
052)	Left side hardware or	(174)	Air bag-driver side and object	(202)	Other sees object (or a situal)		Ground
· · ·	armrest	(174)	in mouth	(303)	Other rear object (specify):	(598)	Other vehicle or object
053)	Left A (A1/A2)-pillar	/175\					(specify):
054)		(175)	Air bag compartment	4040	TN/F / A 00/07/1/5 77/1/6		
055)	•	/1761	cover-driver side		TIVE (ASSISTIVE) DRIVING	(599)	Unknown vehicle or object
033,	Other left pillar (specify):	(176)	Air bag compartment	EQUIP			
0561	Left side window sleep		cover-driver side and	(401)	Hand controls for	NONC	ONTACT INJURY
	Left side window glass Left side window frame	/477	eyewear		braking/acceleration	(601)	Fire in vehicle
		(177)	Air bag compartment	(402)	Steering control devices	(602)	Flying glass
	Left side window sill	(470)	cover-driver side and jewelry		(attached to OEM steering	(603)	Other noncontact injury
059)	•	(178)	Air bag compartment		wheel)		Source
	including one or more of the		cover-driver side and object	(403)	Steering knob attached to		(specify):
	following: frame, window	,	held		steering wheel	(604)	Air bag exhaust gases
	sill, A (A1/A2)-pillar, B-pillar,	(179)	Air bag compartment	(405)	Replacement steering wheel	(697)	Injured, unknown source
200	or roof side rail.		cover-driver side and object		(i.e., reduced diameter)		
UG()	Other left side object		in mouth	(406)	Joy stick steering controls		
	(specify):	(180)	Air bag-passenger side	(407)	Wheelchair tie-downs		
		(181)	Air bag-passenger side and	(408)	Modification to seat belts,		
			eyewear		(specify):		
IIGHT		(182)	Air bag-passenger side and	(409)	Additional or relocated		
101)	Right side interior surface,		jewelry		switches, (specify):		
					•		
	excluding hardware or						



OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum 94 - 14	10. Occupant's Seat Position 13
3. Vehicle Number	Front Seat (11) Left side
4. Occupant Number	(12) Middle (13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):
	(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify):
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 69 inches X 2.54 = 17 5 centimeters	(45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown pounds X .4536 = kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

EJECTION/ENTRAPMENT							
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	_0	15. Medium Status (Immediately Prior To Impact) O (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown					
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown 14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):	0	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or not oriented to time or place (2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown					
(8) Other medium (specify): (9) Unknown							
		·					

	BELT SYSTEM FUNCTION							
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage						
	(5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): (9) Unknown	(2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment						
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat	23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use						
20.	 (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used Proper Use of Manual (Active) Belts	(2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system						
	(0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	(2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or						
21.	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify):	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):						
		(9) Unknown						

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): [] Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
•	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

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	FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION	
44.	Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify):	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown	
45.	(95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps):	(00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify):	
46.	(3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports):	(99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):	
47.	(3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify):	(9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions	
	(3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown	 (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown 	
	Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	·	

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

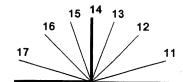
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

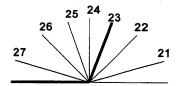
Slightly reclined prior to impact

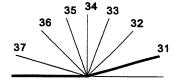
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







	CHILD SAF	ETY SEAT
55.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat	58. Child Safety Seat Harness Usage 59. Child Safety Seat Shield Usage
	(997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used	60. Child Safety Seat Tether Usage Note: Options below applicable to Variables OA58-OA60. (00) No child safety seat
56.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used
57.	Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (23) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used	(12) Harness/shield/tether used (19) Unknown if harness/shield/tether used Unknown if Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used

INJURY CONSEQUENCES	
61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) 2 (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):
62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
STOP WO	ORK HERE

VARIABLES 66-74

TO BE CODED BY THE ZONE CENTER

TO BE CODED BY THE ZONE CENTER

66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown 67. 1st Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific 71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured 72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given (specify units): (9) Unknown if blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility (1) No - blood not given (2) Yes - blood given (3) Yes - blood given (4) No - blood not given (2) Yes - blood given (3) Yes - blood given (4) No - blood not given (5) Unknown if blood given (5) Unknown if blood given (6) Not injured (7) Injured - not treated at medical facility (1) No - blood not given (2) Yes - blood given (3) Yes - blood given (4) No - blood not given (5) Unknown if blood given (6) Unknown if blood given (7) Injured, ABGs not measured or reported (8) Injured - not treated at medical facility (97) Injured - not treated at medical facility (98) No GCS Score at medical facility (99) Unknown	INJURY CONSEQUENCES	TRAUMA DATA
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown	Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown
injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled disease) (specify): (99) Unknown 70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured (00) No recorded injuries (97) Injured, details unknown (99) Unknown if belt used	68. 2nd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled disease) (specify): (99) Unknown 70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown	(1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured 8 BELT USE DETERMINATION 74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):

U.S. Department of Transportation

National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number		3. Vehicle Number	_01
2. Case Number - Stratum	94-14	4. Occupant Number	_01

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

				A.I.S 9	90			•	Injury		Occupant
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number
1st	5. <u>&</u>	6. <u>7</u>	7. <u>5</u>	8. <u>2 o</u>	9. <u>0</u> 2	10. <u>2</u>	.n. <u>2</u>	12. <u>L ZS</u>	13. <u>1</u>	14	15. <u>O</u> D
2nd	16. <u>&</u> 1	17. <u>7</u>	18. <u>5</u>	19. <u>20</u>	20. <u>D</u> <u>1</u>	21. <u>2</u>	222	23. <u>185</u>	24. 1	25	26. <u>0</u> D
3rd	278 2	287	29. <u>5</u>	30. <u>2 D</u>	31. <u>0 2</u>	32. <u>2.</u>	33. <u>2</u>	34. <u>1 & S</u>	35. <u>l</u>	36. <u>1</u>	37. <u>0 D</u>
4th	38. <u>%</u> 3	39. <u></u>	40. <u>S</u>	41. <u>2 Y</u>	42. <u>0 </u> 4_	431	44 . <u>1</u>	45. <u>1 & 5</u>	46. <u>\</u>	47. <u>l</u>	48. <u>0 0</u>
5th	49. 8	50. <u>7</u>	51. <u>S</u>	52. <u>24</u>	53. <u>0 4</u> _	54,	55. <u>1</u>	56. <u> 8 5</u>	57. <u>1</u>	58. <u>l</u>	59. <u>O</u> D
6th	60. 8	61. <u>7</u>	62. <u>9</u>	63. <u>0 6</u>	64. <u>D. 2</u>	65. <u>1</u>	66. <u>l</u>	67. <u>185</u>	68. <u>1</u>	69. <u>l</u>	70. <u>00</u>
7th	71	72	73	74	75	76	77	78,	79	80	81
8th	82	83	84	85	86	87	88	89	90	91	92
9th	93	94	95	96	97	98	99	100	_101	102	103
10th	104 10	05	106	107	108	109	110	111.	112	113	114
	9 9. 1										24 x 1, 24 x 2, 24 x 2, 24

OCCUPANT INJURY DATA													
	Source of Injury Data	Body Region	Type of Anatomic Structure	A.I.S 90 Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number		
11th	_	, —	_	· — —		_	<u> </u>	- X		-			
12th	<u> </u>	_	. —	- 1	O		æ <u> </u>						
13th	· · ·	· -		-		<u> </u>			· - · · · · · · · · · · · · · · · · · ·	· ————————————————————————————————————	. ——		
14th	· · ·	× <u>-</u> ,											
15th	<u>-</u>	<u>_</u>											
16th							_						
1 <i>7</i> th										_			
18th	_	-					<u>-</u>				E)		
19th						 	•		-				
20th		_	-						-				
21st	-					-	-						
22nd									$\frac{1}{2}$				
23rd							_		+				
24th		-					_		- 1	-			
25th	_		_		-								

DIRECT/INDIRECT INJURY

OCCUPANT INJURY CLASSIFICATION Specific Anatomic Level of Injury **Aspect Body Region** Structure Specific injuries are (1)Right Head assigned consecutive (2)Left **Face** (2) (3)two-digit numbers (3) Bilateral Neck Vessels, Nerves, Organs. beginning with 02. (4)Central **Thorax** Bones, Joints are assigned (4)(5) Anterior (5)Abdomen consecutive two digit numbers beginning with To the extent possible, (6)**Posterior Spine** (6)within the organizational Upper Extremity 02. (7)Superior (7)**Lower Extremity** framework of the AIS, 00 (8)Inferior (8)is assigned to an injury (9) Unknown (9) Unspecified The exceptions to this rule apply to: NFS as to severity or **(O)** Whole region where only one injury is Type of Anatomic Whole Area given in the dictionary for (02) Skin - Abrasion that anatomic structure. Structure (04) Skin - Contusion 99 is assigned to any (06) Skin - Laceration injury NFS as to lesion or Whole Area (08) Skin - Avulsion Vessels severity. (2) (10) Amputation (3)Nerves (20) Burn Abbreviated Injury Scale Organs (includes (4) Muscles/ligaments) (30) Crush (40) Degloving (5) Skeletal (includes Minor Injury Injury - NFS joints) (50)(2)Moderate Injury (3) Head - LOC Serious Injury (6) (90)Trauma, other than Severe Injury (4)mechanical Skin (9) Critical Injury (5)Head - LOC Maximum (6)(02) Length of LOC (untreatable) (7)Injured, unknown severity (04) Level (06) of (08) Consciousness

(10) Concussion

(02) Cervical (04) Thoracic (06) Lumbar

Spine

SOURCE OF INJURY DATA **CONFIDENCE LEVEL** OFFICIAL RECORDS (1) Autopsy records with or Direct contact injury (1) Certain Indirect contact injury without hospital/medical (2) Probable (2) (3) Possible Noncontact injury (3) records (2) Hospital/medical records other (9) Unknown (7) Injured, unknown source than emergency room (e.g., discharge summary) (3) Emergency room records only (including associated X-rays or other lab reports) (4) Private physician, walk-in or emergency clinic UNOFFICIAL RECORDS (5) Lay coroner report (6) E.M.S. personnel (7) Interviewee (8) Other source (specify): (9) Police

INJURY SOURCE

INJURY SOURCES FRONT (102) Right side hardware or (183) Air bag-passenger side and (411) Wall mounted head rest (001) Windshield armrest object held (used behind wheel chair) (002) Mirror (103) Right A (A1/A2)-pillar (184) Air bag-passenger side and (412) Other adaptive device (003) Sunvisor (104) Right B-pillar object in mouth (specify):_ (004) Steering wheel rim (105) Other right pillar (specify): (185) Air bag compartment (005) Steering wheel hub/spoke cover-passenger side (006) Steering wheel (combination (106) Right side window glass (186) Air bag compartment **EXTERIOR of OCCUPANT'S** of codes 004 and 005) (107) Right side window frame cover-passenger side and **VEHICLE** (007) Steering column, (108) Right side window sill evewear (451) Hood transmission selector lever. (109) Right side window glass (187) Air bag compartment (452) Outside hardware (e.g., other attachment including one or more of the cover-passenger side and outside mirror, antenna) (008) Cellular telephone or CB following: frame, window jewelry (453) Other exterior surface or sill, A (A1/A2)-pillar, B-pillar, (188) Air bag compartment tires (specify): (009) Add on equipment (e.g., or roof side rail. cover-passenger side and tape deck, air conditioner) (110) Other right side object object held (010) Left instrument panel and (specify): (189) Air bag compartment (454) Unknown exterior objects below cover-passenger side and (011) Center instrument panel and object in mouth **EXTERIOR OF OTHER MOTOR** (190) Other air bag (specify) below INTERIOR VEHICLE. (012) Right instrument panel and (151) Seat, back support (501) Front bumper below (152) Belt restraint webbing/buckle (195) Other air bag compartment (502) Hood edge (013) Glove compartment door (153) Belt restraint B-pillar or door cover (specify) (503) Other front of vehicle (014) Knee bolster frame attachment point (specify): (015) Windshield including one or (154) Other restraint system more of the following: front component (specify): ROOF (504) Hood header, A (A1/A2)-pillar, (201) Front header (505) Hood ornament instrument panel, mirror, or (155) Head restraint system (506) Windshield, roof rail, A-pillar (202) Rear header steering assembly (driver (160) Other occupants (specify): (203) Roof left side rail (507) Side surface side only) (204) Roof right side rail (508) Side mirrors (016) Windshield including one or (161) Interior loose objects (509) Other side protrusions (205) Roof or convertible top more of the following: front (162) Child safety seat (specify): (specify): header, A (A1/A2)-pillar, (163) Other interior object instrument panel, or mirror (251) Floor (including toe pan) (510) Rear surface (passenger side only) (specify): (252) Floor or console mounted (511) Undercarriage (017) Windshield reinforced by transmission lever, including (512) Tires and wheels exterior object (specify) console (513) Other exterior of other motor AIR BAG (253) Parking brake handle vehicle (specify): (019) Other front object (specify): (170) Air bag-driver side (254) Foot controls including (171) Air bag-driver side and parking brake (514) Unknown exterior of other eyewear motor vehicle LEFT SIDE (172) Air bag-driver side and REAR (051) Left side interior surface, jewelry (301) Backlight (rear window) OTHER VEHICLE OR OBJECT IN excluding hardware or (302) Backlight storage rack, (173) Air bag-driver side and object THE ENVIRONMENT armrests held door, etc. (551) Ground (174) Air bag-driver side and object (052) Left side hardware or (303) Other rear object (specify): (598) Other vehicle or object armrest in mouth (specify): (053) Left A (A1/A2)-pillar (175) Air bag compartment (054) Left B-pillar cover-driver side ADAPTIVE (ASSISTIVE) DRIVING (599) Unknown vehicle or object (055) Other left pillar (specify): (176) Air bag compartment EQUIPMENT cover-driver side and (401) Hand controls for NONCONTACT INJURY (056) Left side window glass evewear braking/acceleration (601) Fire in vehicle (057) Left side window frame (177) Air bag compartment (402) Steering control devices (602) Flying glass (058) Left side window sill cover-driver side and jewelry (attached to OEM steering (603) Other noncontact injury (059) Left side window glass (178) Air bag compartment wheel) source including one or more of the cover-driver side and object (403) Steering knob attached to (specify): following: frame, window held steering wheel (604) Air bag exhaust gases sill, A (A1/A2)-pillar, B-pillar, (179) Air bag compartment (405) Replacement steering wheel (697) Injured, unknown source or roof side rail. cover-driver side and object (i.e., reduced diameter) (060) Other left side object in mouth (406) Joy stick steering controls (specify): (180) Air bag-passenger side (407) Wheelchair tie-downs (181) Air bag-passenger side and (408) Modification to seat belts. evewear (specify): RIGHT SIDE (182) Air bag-passenger side and (409) Additional or relocated (101) Right side interior surface, iewelry switches, (specify): excluding hardware or armrests (410) Raised roof

OFFICIAL INJURY DATA - SOFT TISSUE INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

Blood Alcohol Level

Restrained?

No Yes

BAL =

(mg/dl)

Glasgow Coma Scale Score

GCSS = ____

Units of Blood Given

Units = ____

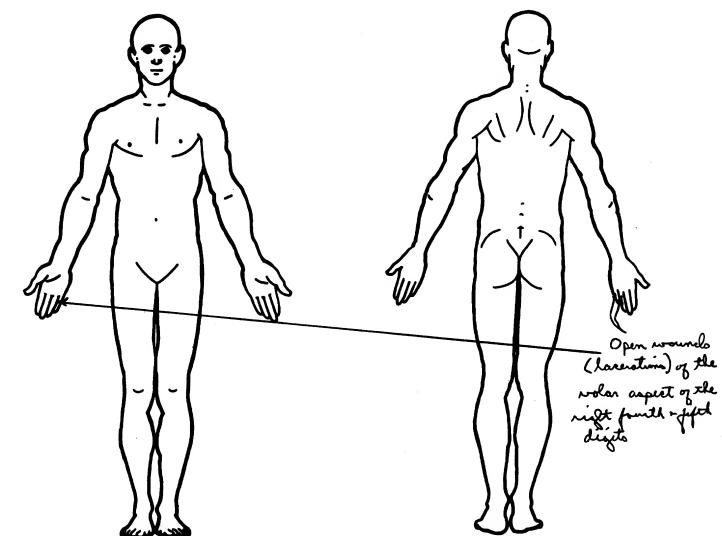
Arterial Blood Gases

pH = _.__

PO₂ = ____

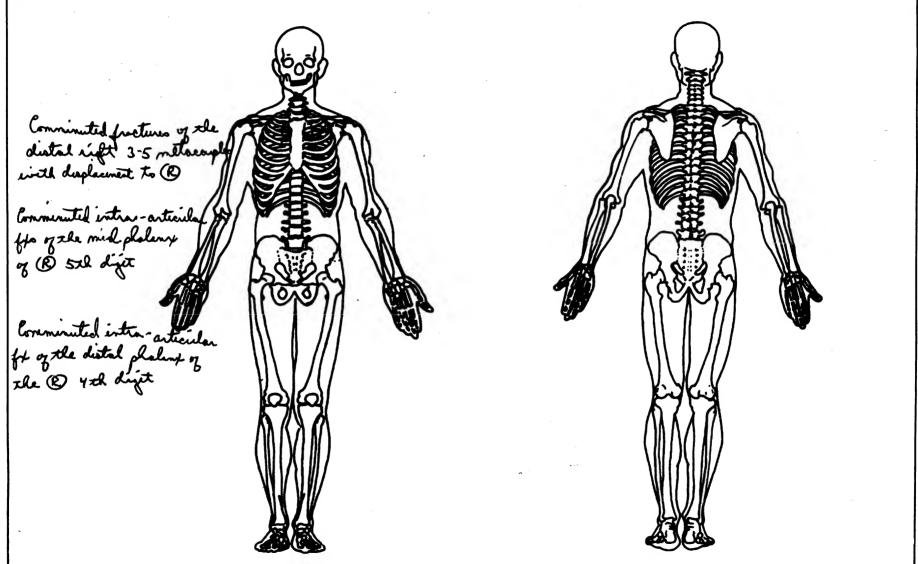
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OFFICIAL INJURY DATA - SKELETAL INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



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